DHC Exhibit-A Page 1 of 3

# DR. DOUGLAS H. CARLISLE, JR.

1104 Gregg Street Columbia, South Carolina 29201 803-429-8392

econcarlisle@gmail.com

### Education

Ph.D., Government and Foreign Affairs, University of Virginia, May 1991

Honors: Teaching Fellowship, 1981-1983

DuPont Fellow, 1981-1982 Colgate Darden Fellow, 1981

M.A., Government and Public Administration, University of Virginia, 1979 B.A., Political Science, Brown University, Providence, Rhode Island, 1975

# Specializations

Public Administration (with economics focus)
Public Policy-making
American Government
International Relations
Comparative Government

# Languages

English and Spanish

### Publications and Presentations

"The Legislative Veto, Diffuseness, and Constitutionally Mandated Friction," Ph.D. dissertation; University of Virginia, May 1991

"The Venezuelan-Guyanan Border Dispute," delivered at the International Studies Association, Atlanta, Georgia, 1983

# Employment

# Economist, South Carolina Office of Regulatory Staff, 2004-2018.

Provide expert testimony regarding rate of return and return on equity on behalf of South Carolina before Public Service Commission in administrative hearings. Apply economic data and analyses to regulated public utility matters to recommend policy and prepare reports to agency. Submitted over a dozen testimonies to Commission. Testimony includes written direct testimony and sur-rebuttal. Oral testimony involves cross-examination on data, analyses, and conclusions. Responsible for economic and financial databases including debt issuances by public utilities and review of financial matters pertaining to utilities. As Board member of professional organization led panel on annual Forum on proposed Federal tax reform

# Analyst, South Carolina Budget & Control Board, Board of Economic Advisors, Office of Research and Statistics, 1999 to 2004

Responsible for Revenue Impact Statements required for all proposed legislation affecting revenue collection. Analyzed economic issues in government resources allocations and prepared written reports of analyses. Provided economic analyses to General Assembly committees, subcommittees, and members as requested and directed. Substantive issues included allocation of funds from the Barnwell nuclear storage facility and estimates of public school attendance (from public, private, and home school surveys) for allocation of funds to school districts.

# Legislative Staff, South Carolina House of Representatives, Committee on Education and Public Works, Higher Education Subcommittee, June 1998 to December 1999

Briefed committee members and House members on higher-education issues in proposed legislation for hearings and floor debates and in response to inquiries from constituents. Advised Committee chairman on various State constitutional issues. Responded to constituent inquiries regarding State-funded scholarships. Served as liaison to Commission on Higher Education.

# Analyst, South Carolina State Reorganization Commission, 1996 to 1998

Performed post-audit follow-up review of agencies' response to recommendations of Legislative Audit Council in reorganization of State government. Presented findings to mixed select committees of lay, gubernatorial, and legislative members. Reviews evaluated agencies' implementation of steps for efficiency, effectiveness, risk assessments, prevention of fraud, waste, and abuse, and compliance with laws, regulations, and Generally Accepted Government Auditing Standards. Evaluations involved devising audit plans, reviewing agency documents, compiling an analyzing databases, and interviewing agency directors and staff.

# Political Science Instructor, Midlands Technical College, 1993 to 1997

Taught up to five sections of two courses per semester in American government and state and local government. Prepared and presented lectures, exercises, and tests, graded term papers and compiled final grades. Counseled and coached students. Established section from Midlands Technical College of students to South Carolina State Student Legislature. Organized 1994 debate at College at which five candidates for governor appeared and were questioned by a local television anchor. Reviewed competing textbooks for department chairman.

# Consultant, Market Compass, 1994-1996

Operated opinion-research and policy-analysis firm, consulting in tandem with marketing agency to advise clients on expanding overseas business, providing Sinsight on local culture. Composed and executed polls and presented to municipality's leadership findings and conclusions from executive interviews regarding public opinion on municipal services.

Commission. Testimony includes written direct testimony and sur-rebuttal. Oral testimony involves cross-examination on data, analyses, and conclusions. Responsible for economic and financial databases including debt issuances by public utilities and review of financial matters pertaining to utilities. As Board member of professional organization led panel on annual Forum on proposed Federal tax reform

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# DHC Exhibit-B Page 1 of 1

# DOUGLAS H. CARLISLE, JR. -- TESTIMONIES

Count	Company	Filed?	Docket Number	Type of testimony
1	Wyboo	Yes	2005-13-WS	Margin, Direct Test.
2	Haig Point	Yes	2005-34-WS	ROE, Direct Test.
3	Haig Point	Yes	2005-34-WS	ROE, Surrebuttal
4	Southland	No*	2007-244-W	ROE, Direct &
				Settlement
5	Utility Services	Yes	2007-286-WS	ROE, Direct &
				Settlement
6	Alpine	Yes	2008-190-S	Margin, Direct Test.
7	Duke Energy Carolinas	Yes	2009-226-E	ROE, Direct
8	Tega Cay	Yes	2009-473-WS	ROE, Direct
9	United	Yes	2009-479-WS	ROE, Direct
10	Lockhart Power	No	2010-181-E	ROE, Direct
11	Carolina Water Service	No	2011-47-WS	ROE, Direct
12	Daufuskie Island	Yes	2011-229-WS	ROE, Direct
14	Daufuskie Island	Yes	2011-229-WS	ROE, Surrebuttal
15	Duke Energy Carolinas	Yes	2010-271-E	ROE, Direct
16	Tega Cay	Yes	2010-177-WS	ROE, Direct
17	Tega Cay	Yes	2010-177-WS	ROE, Surrebuttal
18	SCE&G	Yes	2010-218-E	ROE, Direct
19	Duke Energy Carolinas	No	2013-59-E	ROE, Direct
20	United	Yes	2013-199-WS	ROE, Direct
21	Utility Services	Yes	2013-201-WS	ROE, Direct
22	Utility Services	Yes	2013-201-WS	ROE, Surrebuttal
23	Carolina Water Service	Yes	2013-275-WS	ROE, Direct
24	Lockhart	No	2013-178-E	ROE, Direct
25	Daufuskie Island	Yes	2014-346-WS	ROE, Direct
26	Carolina Water Service	Yes	2015-199-WS	ROE, Direct
27	Kiawah	Yes	2016-222-WS	ROE, Direct
28	Duke Energy Progress	Yes	2016-227-E	ROE, Direct

Dr. Douglas H. Carlisle

Docket # 2021-324-WS

ket # 2021-324-WS Kiawah Island Utility Exhibit DHC-1 p. 1 of 1

# SUMMARY, ALSO SHOWING CAP-M CALCULATON

$R_{m}$	11.41% *
$R_{f}$ (+1.5 yr)	2.70%
ERP	8.71%
Adjusted ERP (ERP*β)	6.90% <sup>†</sup>
Adjusted ERP + $R_f$ =CAP-M	9.60%

DCF 7.74% (Exhibit DHC-8)

**CEM 9.11%** (Exhibit DHC-12, p.4)

AVERAGE OF METHODS 8.82%

8.43% lower middle of range: (DCF + CEM)/2 9.35% upper middle of range: (CEM + CAP-M)/2

\*R<sub>m</sub> is average of numbers in bold:

	<u>Geometric</u>	<u>Arithmetic</u>	<u>Average</u>
	mean	<u>mean</u>	of Means
Largest Companies	10.20%	12.10%	11.15%
Smallest Companies	11.90%	16.30%	14.10%
Average of Largest & Smallest	11.05%	14.20%	
			12.63%

Source of above table: Exhibit DHC-15

† See Exhibit DHC-13 for source of  $\beta$ 

Docket 2021-324-WS Exhibit DHC-2

Dr. Douglas H. Carlisle

Kiawah Island Utility, Inc.

p. 1 of 2

2019

2018

2017

2016

**2015** \$54.80

\$48.65 \$32.85 \$21.84 \$23.35

2013

2012

2011

\$41.05

\$35.35 \$20.55 \$21.32 \$18.05

\$29.00 \$16.75 \$17.58 \$18.05

\$79.65 \$37.06 \$51.05 \$12.00 \$59.35 \$64.20

\$36.96

\$36.30

\$31.08 \$29.65 \$7.76

\$24.58

\$22.90

\$42.25

\$39.95

\$42.20

\$39.30

\$47.15

\$39.45

\$34.75

\$24.60

\$21.40

\$20.55

\$18.55 \$24.75 \$19.15 \$17.65

\$17.95

\$10.01

\$8.95

\$59.85 \$35.75 \$31.80

\$38.80

\$35.80

\$23.20

\$21.55

\$19.80

\$24.35

\$17.20

\$34.50

\$31.90

\$31.60

\$29.60

\$27.30

\$108.95

\$87.10

\$81.20

\$72.05

# Ten-Year Change in Prices of U.S. Publicly Traded Stocks

Source: Exhibit DHC-4 \*Compound Annual Growth Rate

Utility, Inc.	p. 2 of 2
Island	
Kiawah	

Stock Prices (median, by yr.)	2020	2021	CAGR*
American Water Works	\$132.30	\$160.20	18.6%
American States Water Co	\$80.85	\$86.45	17.8%
Artesian Resources	\$35.13	\$41.95	9.1%
California Water Svc. Group	\$48.55	\$61.35	13.0%
Global Water Resources	\$12.35	\$17.83	18.1%
Middlesex Water Co	\$62.45	\$91.75	17.7%
SJW Group	\$60.30	\$65.85	10.7%
Essential Utilities	\$42.45	\$46.90	10.6%
York Water Company	\$42.95	\$47.25	10.8%
	7	Average=	14.0%

Jtility, Inc.	p. 1 of 2
Kiawah Island I	

Docket #2021-324-WS Exhibit DHC-3

# **BOOK VALUE PER SHARE**

Dr. Douglas H. Carlisle, Jr.

Company Name	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
American Water Works	\$24.11	\$25.11	\$26.52	\$27.39	\$28.25	\$29.24	\$30.13	\$32.42	\$33.83	\$35.58
American States Water Co	\$10.84	\$11.80	\$12.72	\$13.24	\$12.77	\$13.52	\$14.45	\$15.19	\$16.33	\$17.39
Artesian Resources	\$13.12	\$13.57	\$13.80	\$14.09	\$14.61	\$15.23	\$15.91	\$16.57	\$17.25	\$18.11
California Water Service Group	\$10.76	\$11.28	\$12.54	\$13.11	\$13.41	\$13.75	\$14,44	\$15.19	\$16.07	\$18.30
Global Water Resources						\$0.78	\$0.76	\$1.30	\$1.15	\$1.43
Middlesex Water Co	\$11.27	\$11.48	\$11,82	\$12.24	\$12.74	\$13.40	\$14.02	\$15.17	\$18.57	\$19.81
SJW Group	\$14.20	\$14.71	\$15.92	\$17.75	\$18.83	\$20.61	\$22.57	\$31.31	\$31.27	\$32.12
Essential Utilities	\$7.21	\$7.90	\$8.63	\$9.27	\$9.78	\$10.43	\$11.02	\$11.28	\$17.58	\$19.09
York Water Company	\$7.45	\$7.73	\$7.98	\$8.15	\$8.51	\$8.88	\$9.28	\$9.75	\$10.31	\$10.97

Mean (History & Estimates) Median (History & Estimates) Average of Mean & Median Average for Period or Estimates

Source: Exhibit DHC-4

lnc.	of 2
Utility,	p. 2
Island	
Kiawah	

**ESTIMATED** 

BVPS

3-YEAR

ROWTH

7.00% 7.38%

2.6%

4.8% 4.4% 12.1% 28.0%

4.74% 4.41% 12.04% 23.51% 11.21%

ValueLine

Simple

punodu 5.59% 1.54%

1.58% 3.94% 4.25% 2.80%

11.4% 3.9%

> 3.79% 21.98%

23.9% 5.8%

5.82%

Dr. Douglas H. Carlisle, Jr.

<b>BOOK VALUE PER SHARE</b>		B	OOK VALU	BOOK VALUE PER SHARE HISTORICAL GR	HISTORIC/	AL GR
		10-YEAR	AR	5-YEAR	4R	
Company Name	2021	Compound	Simple	Compound	Simple	Com
American Water Works	\$38,15	4.70%	4.71%	5.46%	5.48%	
American States Water Co	\$17.45	4.88%	4.94%	5.24%	5.27%	
Artesian Resources				4.39%	4.39%	
California Water Service Group	\$21.35	7.09%	7.19%	9.20%	9.31%	
Global Water Resources						7
Middlesex Water Co	\$20.85	6.35%	6.48%	9.24%	9.43%	
SJW Group	\$35.00	9.44%	9.86%	11.17%	11.96%	
Essential Utilities	\$20.45	10.99%	11.80%	14.41%	15.92%	(4
York Water Company	\$11.55	4.48%	4.49%	5.40%	5.40%	
Mean (History & Estimates)		6.85%	7.07%	8.06%	8.39%	
Median (History & Estimates)		6.35%	6.48%	7.33%	7.39%	
Average of Mean & Median		9.60%	6.77%	7.70%	7.89%	
Average for Period or Estimates		6.77%	%	7.80%	%	

4.07%

11.09%

10.34%

3.94%

5.81%

5.82%

4.00%

8.45%

8.08%

Combined Average

8.27%

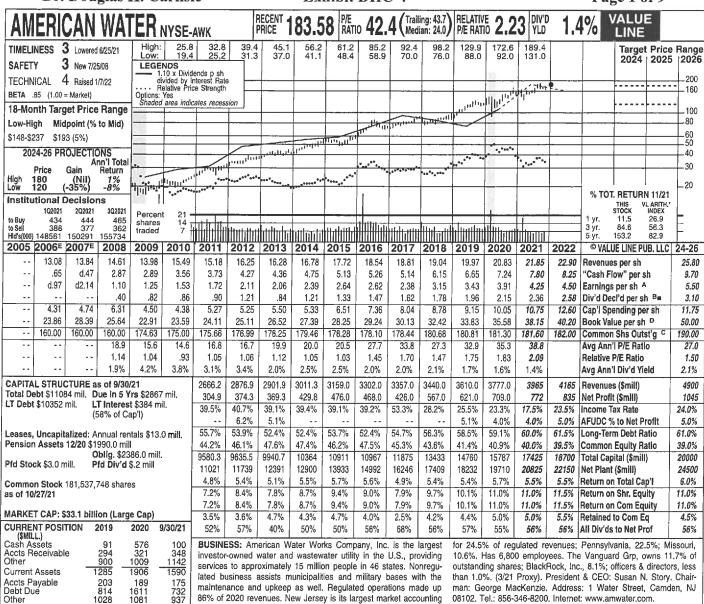
7.61%

Historical Average

Estimate Avg.

5.81%

Source: Exhibit DHC-4



maintenance and upkeep as well. Regulated operations made up 86% of 2020 revenues. New Jersey is its largest market accounting American Water Works most likely finished up another successful year.

man: George MacKenzie. Address: 1 Water Street, Camden, NJ 08102. Tel.: 856-346-8200. Internet: www.amwater.com.

ANNUAL RATES Past Est'd '18-'20 Past of change (per sh) 10 Yrs. 5 Yrs. to '24-'26 3.0% 8.0% 10.5% 3.5% 7.0% 4.5% 6.5% Revenues "Cash Flow" Earnings Dividends 8.0% 11.0% Book Value 3.5% 4 5% 5.0%

2045

2881

1844

1.78

1.96

2.15

Other

2018

2019

2020

2021

.415

.455

.50

.55

Current Liab.

Cal-	QUAF	TERLY RE	VENUES (	\$ mill.)	Full
endar			Sep. 30		Year
2018	761	853	976	850	3440
2019	813	882	1013	902	3610
2020	844	931	1079	923	3777
2021	888	999	1092	986	3965
2022	915	1065	1130	1055	4165
Cal-	EA	RNINGS P	ER SHAR	Α	Full
endar	Mar.31	Jun. 30	Sep. 30	Dec. 31	Year
	Mar.31 .59	Jun. 30 .91	Sep. 30 1.03	.62	
endar			<del></del>		Year
endar 2018	.59	.91	1.03	.62	<b>Year</b> 3.15
2018 2019	.59 .62	.91 .94	1.03 1.33	.62 .54	3.15 3.43
2018 2019 2020	.59 .62 .68	.91 .94 .97	1.03 1,33 1.46	.62 .54 .80	3.15 3.43 3.91
2018 2019 2020 2021	.59 .62 .68 .73 . <b>75</b>	.91 .94 .97 1.14 1.20	1.03 1.33 1.46 1.53	.62 .54 .80 <b>.85</b> . <b>95</b>	3.15 3.43 3.91 4.25

Share earnings probably came in close to our \$4.25 estimate, which represents a 9% gain over the previous year's healthy total. It should be noted that water utilities have been among the industries that have not been materially affected by the COVID-19 pandemic. Earnings prospects are bright for

next year and out to mid-decade. We believe the company's share net can rise to \$4.50 in 2022. Moreover, management projects that share earnings can increase from 7% to 9% from 2022 to 2026.

Acquisitions will continue to fuel American Water's income growth. The water utility industry in the United States is extremely fragmented, as it consists of over 50,000 mostly small municipally run water districts. In addition to having very outdated infrastructure, most water districts are also not well capitalized and are extremely inefficient. This scenario is perfect for American Water's strategy of increasing its rate base, by investing heavily to update their pipelines, and wringing significant cost savings out of them.

this industry, there are clearly benefits to economies of scale. Thus far in 2021, American has made 14 acquisitions and has another 31 "under agreement" to be bought. With state regulators typically on board, we expect the buying spree to rise later in the decade. Indeed, out to 2026, management plans on budgeting \$1.5 billion to \$2 billion a year for takeovers.

The capital budget remains large. The company projects that it will spend, on average, somewhere between \$2.3 billion to \$2.4 billion per annum on construction. The two main sectors where the expenditures will be invested are to replace old infrastructure (69%) and improving the resiliency of current assets (11%). Though external funds will be required to finance portion of the spending, American Water's balance sheet is capable of handling more debt without a problem.

These shares do not stand out at this particular time. In the short term, the stock is only ranked to be an average performer in the year ahead. Over the 18month and three-to five-year period, the equity offers subpar total return potential. James A. Flood January 7, 2022

(A) Diluted earnings. Excludes nonrecur. ings report due early mid-February. losses: '08, \$4.62; '09, \$2.63; '11, \$0.07. Disc. (B) Dividends paid in March, June, September, oper.: '06, (\$0.04); '11, \$0.03; '12, (\$0.10); and December. ■ Div. reinvestment available. '13,(\$0.01). GAAP used as of 2014. Next earn- (C) In millions. (D) Includes intangibles. On

.455

.50

.55

.6025

.455 .455

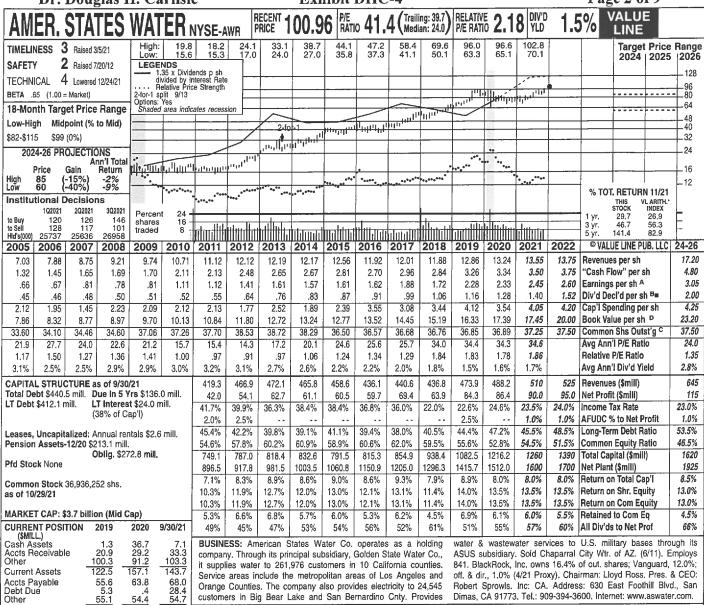
.50 .50

.55

.6025 .6025

.55

9/30/21: \$1,653 billion, \$9,11/share, (E) Pro forma numbers for '06 & '07. Company's Financial Strength Stock's Price Stability B++ 85 Price Growth Persistence 75 90 **Earnings Predictability** 



Orange Counties. The company also provides electricity to 24,545 customers in Big Bear Lake and San Bernardino Cnty. Provides

Robert Sprowls, Inc. CA. Address: 630 East Foothill Blvd., San Dimas, CA 91773, Tel.: 909-394-3600, Internet: www.aswater.com.

ANNUAL RATES Past Est'd '18-'20 Past of change (per sh) Revenues "Cash Flow" 10 Yrs. 5 Yrs. to '24-'26 2.5% 5.5% .5% 3.0% 5.0% 7.0% 6.5% 9.5% Earnings 5.5% 7.5% 9.0% Dividends

116.0

Current Liab.

118.6

151.1

Book V	alue	5.5	% 5.	0%	5.5%
Cal- endar			VENUES ( Sep. 30		Full Year
2018	94.7	106.9	124.2	111.0	436.8
2019	101.7	124,7	134.5	113.0	473.9
2020	109.1	121.3	133.6	124.2	488.2
2021	117.1	128.4	136.8	127.7	510
2022	120	130	145	130	525
Cal-	EA	Full			
endar	Mar.31	Jun. 30	Sep. 30	Dec. 31	Year
2018	.29	.44	.62	.37	1.72
2019	.35	.72	.76	.45	2.28
2020	.38	.69	.72	.54	2.33
2021	.52	.72	.76	.45	2.45
2022	.48	.75	.80	.57	2.60
Cal-	QUAR	TERLY DIV	IDENDS P.	AID B	Full
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year
2018	.255	.255	.275	.275	1.06
2019	.275	.275	.305	.305	1.16
2020	.305	.305	.335	.335	1.28
2021	.335	.335	.365	.365	1.40
2022					

American States Water has reached a preliminary agreement on a pending rate case. In late November, its water subsidiary, Golden States Water (GSW), agreed to a settlement with the state's Public Advocates Office (PAO) on a petition for higher rates. The importance of the pact cannot be underestimated, as the application was for rates from 2022 through to 2024. (In California, utilities typically file new petitions for rate adjust-ments triennially.) Final approval is still required by the California Public Utility Commission, but, generally it tends to go along with the PAO's recommendations. According to the pact, GSW will invest about \$417 million over the next three years to upgrade its water assets. Rates will increase \$20.6 million a year. Also, GSW would be partially protected from inflation, as about \$13 million in additional hikes can be implemented should costs continue to be a problem. Several minor issues have yet to be resolved.

Wall Street took notice of the deal. Since the announcement, the price of AWR stock has done much better than the S&P 500 Index and all but one of the equities in the Water Industry.

Earnings prospects for 2022 are encouraging. On a year-over-year basis, we expect the utility's share net to decline in the fourth quarter for two reasons. First, it's versus a strong 2020 interim. And second, it is not unusual for a utility's bottom line to not do well in the final stretch of an old rate case. Next year, we think American States share net can rise 6%, thanks to higher rates being in effect.

Unregulated activities should also help spur profit and dividend growth. The company's ASUS subsidiary provides water services to U.S. military bases. Returns on these operations are determined by state authorities, so margins are typically higher here. One possible problem that could stall progress would be if inflation remains at its current level for an extended period.

Investors can probably find better selections elsewhere. All of the company's positive attributes seem to be fully factored into its current quote. Thus, total return potential in the short, medium, and long terms are not attractive.

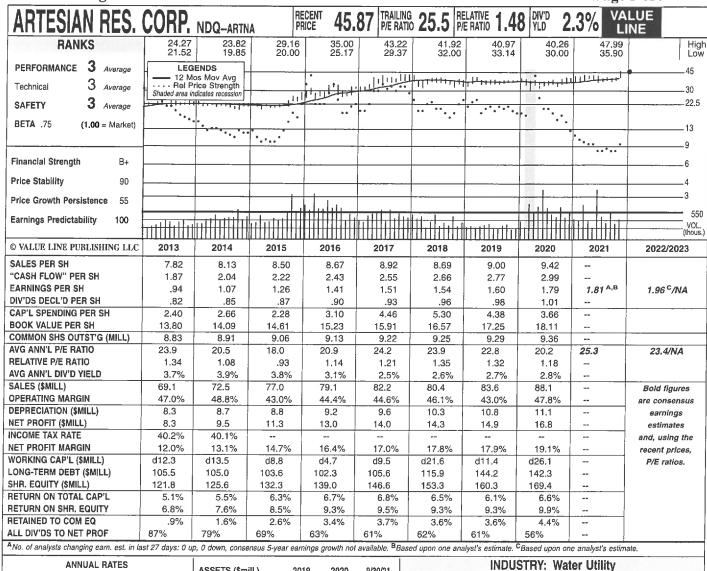
January 7, 2022 James A. Flood

(A) Primary earnings. Excludes nonrecurring gains/(losses): '05, 13¢; '06, 3¢; '08, (14¢); '10, '11, 10¢. Next earnings report due early February.

vestment plan available. (C) In millions, adjusted for split.

(B) Dividends historically paid in early March, June, September, and December. ■ Div'd rein-million/\$0.03 a share.

Company's Financial Strength Stock's Price Stability Price Growth Persistence 100 **Earnings Predictability** 95



		ANNUAL	RATES			ASSETS (\$mill.)	2019	2020	9/30/21	Ĩ	
of chan	ge (per :	share)	5 Yrs.	1	Yr.	Cash Assets	.6	.0	.6	ŀ	
Sales			2.0%		4.5%	Receivables	6.9	10.2	9.6	1	
"Cash			6.5%	8	8.0%	Inventory	1,3	1.5	1.7	1	
Earning			8.5%		2.0%	Other	5.4	5.9	7.3	1	
Dividen			3.0%		2.5%	Current Assets	14.2	17.6	19,2	I	
Book V	alue		4.0%		5.0%	Ourient Assets	14.2	17.0	13.2	١	
Fiscal	QUA	RTERLY	SALES (\$	mill.)	Full	Property, Plant				١	
Year	1Q	2Q	3Q	4Q	Year	& Equip, at cost	671.9	711.7			
10/01/10	40.4	00.7	00.5	01.0	100.0	Accum Depreciation	137.4	148.3		l	
12/31/19	19.4	20.7	22.5	21.0	83.6	Net Property Other	534.5	563.4	585.3	1	
12/31/20	19.9	21.8	24.7	21.7	88.1	1	11.7	12.2	11.9		
12/31/21	20.7	22.6	25.0			Total Assets	560.4	593.2	616.4	ı	
12/31/22					1						
Fiscal	EΔ	RNINGS	PER SHA	RE	Full	LIABILITIES (\$mill.)					
Year	1Q	2Q	3Q	4Q	Year	Accts Payable	8.2	6.4	5.3		
<u> </u>					1	Debt Due	9.2	28,6	29.1	l	
12/31/18	.38	.42	.42	.32	1.54	Other	8.2	8.7	13.6		
12/31/19	.38	.41	.48	.33	1.60	Current Liab	25.6	43.7	48.0	l	
12/31/20	.43	.49	.54	.33	1.79						
12/31/21	.45	.48	.54	.35							
12/31/22	.50	.52				LONG-TERM DEBT A	ND EQUIT	Y		l	
Cai-	QUAR	TERLY D	IVIDENDS	PAID	Fuli	as of 9/30/21				l	
endar	1Q	2Q	3Q	4Q	Year	Total Debt \$172.5 mill.		Due in 5	Yrs. NA	ĺ	
2019	.242	.246	.246	.25	.98	LT Debt \$143.3 mill.				l	
2020	.25	.25	.25	.26	1.01	Including Cap. Leases	s NA	/4ED/	-4.010		
2021	.257	.261	.261	.268	1.05	Lancas Unasmitalizad	(Annual ra		of Cap'l)	Į	
2022					''''	Leases, Uncapitalized	Annuai re	niais NA			
						Pension Liability None	in '20 vs. N	lone in '19		H	
	INSTIT	UTIONAL	. DECISIO	NS							
		1Q'21	2Q'21		2'21	Pfd Stock None		Pfd Div'd P	aid None		
to Buy		36	40		38	Common Stock 8,524,83	7 shares				
to Sell		43	42		40	Johnney Glock 0,027,00	, ondies	(55%	of Cap'l)		

Hid's(000)

4359

4214

4255

BUSINESS: Artesian Resources Corp. operates as the parent holding company of five regulated public utilities: Artesian Water Company, Inc., Artesian Water Pennsylvania, Inc., Artesian Water Maryland, Inc., Artesian Wastewater Management, Inc., and Artesian Wastewater Maryland, Inc.; and three non-regulated subsidiaries: Artesian Utility Development, Inc., Artesian Development Corp., and Artesian Storm Water Services, Inc. Its principal subsidiary, Artesian Water Company, Inc., distributes and sells water, including water for public and private fire protection, to residential, commercial, industrial, municipal, and utility customers in Delaware, Maryland, and Pennsylvania. It provides wastewater services to customers in Delaware. In addition, it provides contract water and wastewater operations, and water, sewer and internal Service Line Protection Plans. Has 235 employees. Chairman, C.E.O. & President: Dian C. Taylor Address: 664 Churchmans Rd., Newark, DE 19702. Tel.: (302) 453-6900. Internet: www.artesianresources.com.

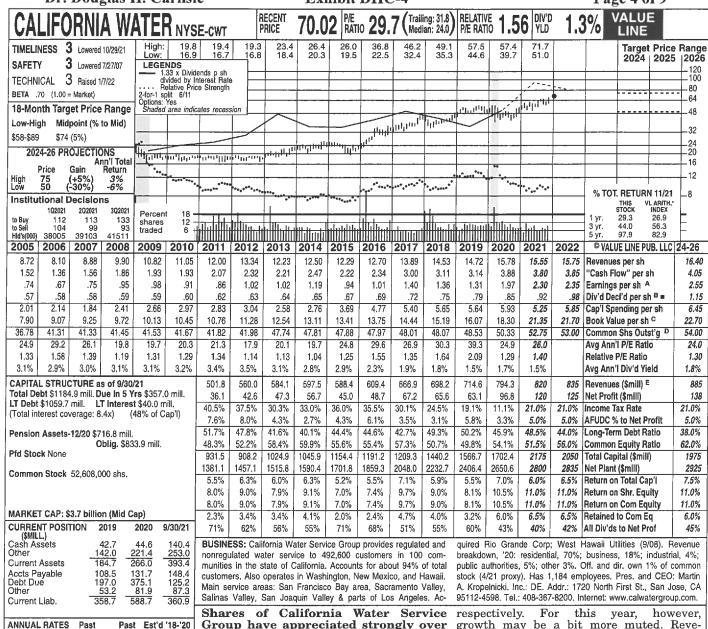
> E.B.January 7, 2022

TOTAL SHAREHOLDER RETURN

Dividends plus appreciation as of 11/30/2021 3 Mos. 6 Mos. 1 Yr. 3 Yrs. 5 Yrs.

9.19% 5.03% 18.67% 26.63% 53.93%

(55% of Cap'l)



Past Est'd '18-'20 to '24-'26 1.5% 5 Yrs. 3.5% 4.0% 6.0% 5.0% 8.0% 8.0% 3.0% 8.5% 3.0% 4 0% 5.0% 5.0% Dec.31 Year

Book Value QUARTERLY REVENUES (\$ mill.) Mar.31 Jun.30 Sep.30 endar 134.6 2018 174.9 221.3 167.4 698.2 179.0 232.6 714.6 2019 126.1 176.9 2020 304.1 189.1 125.6 175.5 794.3 2021 147.7 213.1 256.7 202.5 820 2022 260 205 835 155 215 EARNINGS PER SHARE A Cal-Full Sep.30 endar Mar.31 Jun.30 Dec.31 Year 2018 d.02 .31 .75 .32 1.36 2019 d.16 .35 .88 .24 1.31 2020 d.42 .11 1.94 .31 1.97 2021 d.06 .75 1,20 .41 2.30 2022 .10 .65 1.15 .45 2.35 QUARTERLY DIVIDENDS PAID B = Cal-Full endar Mar.31 Jun.30 Sep.30 Dec.31 Year 2018 .1875 .1875 .1875 .1875 .75 2019 .1975 .1975 .1975 .79 .1975.2125 .2125 .2125 .85 2020 .2125 .230 .230 2021 .230 .230 2022

10 Yrs

of change (per sh)

Revenues

Dividends

"Cash Flow" Earnings

Group have appreciated strongly over the past three months. The stock is up more than 15% in price since our early-October full-page report, etching a fresh all-time high along the way. A combination of better-than-expected Septemberperiod financial results, coupled with a broader shift toward more-conservative, noncyclical assets, likely underpinned the advance. That said, we think the recent

in some profits. In fact, the stock has slipped one spot on our Timeliness ranking scale, to 3, and is now just an Average selection for relative year-ahead price performance.

run-up in price presents a decent op-

portunity for committed investors to lock

Top- and bottom-line expansion may not be as pronounced in 2022 as it was in 2021. Following a strong profit beat in the third-quarter, which was driven by rate hikes associated with its recent California rate case decision, we are raising our 2021 share-net estimate by \$0.25, to probably \$2.30. Thus, California Water closed the books on 2021 with revenues

earnings growth of 3% and 17%,

growth may be a bit more muted. Revenues are poised to advance 2%, to \$835 million, while earnings may increase only a nickel, to \$2.35 per share. It's worth

noting that a few one-off benefits recognized in 2021 are factored into our rela-

tively flat bottom-line forecast. Robust capital spending

on infrastructure upgrades is on tap for the pull to mid-decade. Most notably, management's strategic investment initiatives pipelines, include servicing outdated watermain replacement projects, treat-ment plant upgrades, and IT system en-On balance, California hancements. Water's annual capital budget is likely to approach \$350 million over the next few

Buy-and-hold subscribers should look elsewhere, too. At the recent quotation, total return potential three to five years hence is unappealing, as the equity is presently trading near the top of our 3- to 5-year Target Price Range. In sum, investors would be wise to defer capital commitments at this juncture.

January 7, 2022 Nicholas P. Patrikis

(A) Basic EPS. Excl. nonrecurring gain (loss): 11, 4¢. Next earnings report due early Feb.

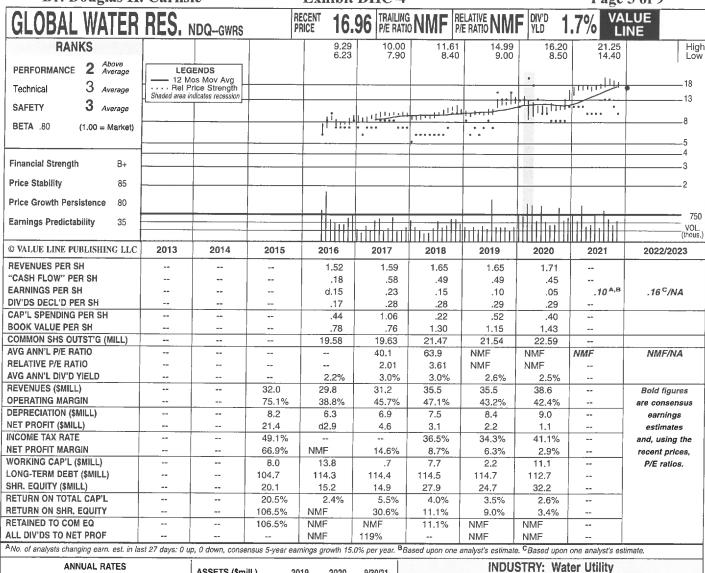
(B) Dividends historically paid in late Feb.,
May, Aug., and Nov. ■ Div'd reinvestment plan

(C) Incl. intangible assets. In '20 \$0.55/sh.

(D) In millions, adjusted for split.

available. (C) Incl. intangible assets. In '20: \$27.6 mill., (E) Excludes non-regulated revenues

Company's Financial Strength Stock's Price Stability 95 Price Growth Persistence **Earnings Predictability** 55



		ANNUAL	RATES			ASSETS (\$mill.)	2019	2020	9/30/21	Ī
of char	nge (per	share)	5 Yrs.	1	Yr.	Cash Assets	7.5	18.0	21.2	$\vdash$
Sales	J (1				4.0%	Receivables	1.6	2.1	1.9	L
"Cash	Flow"			-1	8.5%	Inventory	.0	.0	.0	
Earning	gs			-50	0.0%	Other	3.2	3.4	4.4	
Divider	nds		**		1.0%	Current Assets	12.3	23.5		L
Book V	'alue			24	4.5%	Current Assets	12.3	23.3	27.5	l
Fiscal	QUA	RTERLY	SALES (\$	milł.)	Full	Property, Plant				
Year	1Q	2Q	3Q	4Q	Year	& Equip, at cost	326.3	340.2		l
10/21/10	77		0.0	0.7	05.5	Accum Depreciation	92.7	101.3	0.40.7	1
12/31/19		9.2	9.9	8.7	35.5	Net Property Other	233.6	238.9	249.7	1
12/31/20	8.2	9.9	10.8	9.7	38.6		20.2	21.0	18.3	
12/31/21	9.3	10.9	11.4			Total Assets	266.1	283.4	295.5	ĺ
12/31/22										ı
Fiscal	EA	RNINGS	PER SHA	RE	Full	LIABILITIES (\$mill.)				ı
Year	10	2Q	3Q	4Q	Year	Accts Payable	1.0	.5	.5	ļ
				74	-	Debt Due	.1	2.0	4.0	
12/31/18	.02	.10	.03		.15	Other	9.0	9.9	11.5	
12/31/19	.02	.04	.05	d.01	.10	Current Liab	10.1	12.4	16.0	
12/31/20	.02	d.01	.05	d.01	.05					
12/31/21	d.01	.09	.07	.01						
12/31/22						LONG-TERM DEBT AI	ND EQUIT	Υ		
Cal-	QUAR	TERLY D	IVIDENDS	PAID	Full	as of 9/30/21				ı
endar	10	2Q	3Q	4Q	Year	Total Debt \$114.9 mill.		Due in 5	Yrs. NA	
2019	.072	.072	.072	.072	.29	LT Debt \$110.9 mill.				
2020	.072	.072	.072	.073	.29	Including Cap. Leases	NA .		ĺ	
2021	.073	.073	.073	.073	.29				of Cap'l)	i .
2021	.073	.073	.073	.073	.29	Leases, Uncapitalized	Annual re	ntals NA		
2022						B 1 12 1 200 11	. 100	1 140		
	INSTIT	UTIONAL	DECISIO	NS		Pension Liability None	In 20 Vs. N	ione in 19		Π
		1Q'21	2Q'21	30	2'21	Pfd Stock None		Pfd Div'd P	aid None	
to Buy		18	20		30	O Ot1, 00 040 0	00 -1			
to Sell		30	27		23	Common Stock 22,649,0	uu snares	(000/	of Cap'l)	
								(22%	o u cabii i	_

Hld's(000)

7611

7618

7500

BUSINESS: Global Water Resources, Inc. is a water resource management company that owns, operates, and manages 17 water, wastewater, and recycled water utilities in strategically located communities, principally in metropolitan Phoenix, Arizona. It seeks to deploy its integrated approach, Total Water Management, a term used to mean managing the entire water cycle by owning and operating the water, wastewater, and recycled water utilities within the same geographic areas in order to both conserve water and maximize its total economic and social value. The company uses Total Water Management to promote sustainable communities in areas where growth outpaces the existing potable water supply. Global Water recycles nearly one billion gallons of water annually. In December 2021, Global Water signed a letter of intent to acquire Farmers Water Co., a subsidiary of Farmers Investment Co. Has 79 employees. Chairman, C.E.O. & President: Ron L. Fleming Address: 21410 N. 19th Avenue #220, Phoenix, AZ 85027. Tel.: (480) 360-7775. Internet: www.gwresources.com.

7 2022

E.B.

January 7, 2022

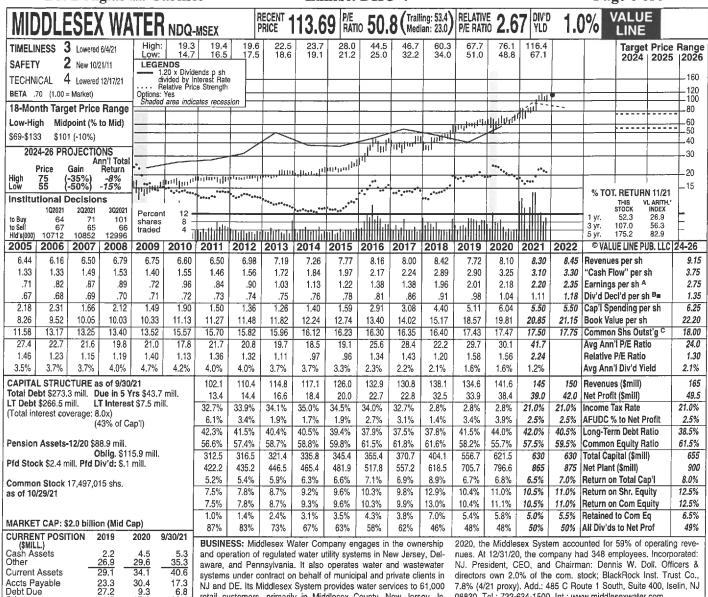
TOTAL SHAREHOLDER RETURN

Dividends plus appreciation as of 11/30/2021

1 Yr. 3 Yrs. 5 Yrs.

 3 Mos.
 6 Mos.
 1 Yr.
 3 Yrs.
 5 Yrs.

 -13.57%
 1.63%
 35.93%
 80.77%
 130.98%



9.3 17.1 68.4 Current Liab. 65.0 56.8 92.5 ANNUAL RATES Past Past Est'd '18-'20 of change (per sh) 10 Yrs. 5 Yrs. to '24-'26 2.0% 7.5% 9.0% 2.0% 10.5% 12.5% 2.0% 3.5% Revenues "Cash Flow" Earnings Dividends Book Value 5.0% 5.5% 3.5%

6.8

DOUK V	alue	5.5	//6 O.	U70 i	3.376
Cal- endar			VENUES ( Sep. 30		Full Year
2018	31.2	34.9	38.7	33.3	138.1
2019	30.7	33.4	37.8	32.7	134.6
2020	31.8	35.3	39.9	34.6	141.6
2021	32.5	36.7	39.9	35.9	145
2022	34.0	38.0	41.0	37.0	150
Cal-	E/	ARNINGS F	PER SHARE	EA	Full
endar	Mar.31	Jun. 30	Sep. 30	Dec. 31	Year
2018	.27	.52	.74	.43	1.96
2019	.39	.49	.66	.46	2.01
2020	.44	.55	.72	.47	2.18
2021	.39	.62	.65	.54	2.20
2022	.47	.58	.75	.55	2.35
Cal-	QUAR	TERLY DIV	IDENDS P	AID Be	Fuli
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year
2018	,22375	.22375	.22375	.24	.91
2019	.24		.24		.98
2020	.2562	.2562	.2562	.2725	1.04
2021	.2725	.2725	.2725	.290	
2022					

systems under contract on behalf of municipal and private clients in NJ and DE. Its Middlesex System provides water services to 61,000 retail customers, primarily in Middlesex County, New Jersey. In

The investment community continues to hold Middlesex Water stock in high regard. Shares of the regulated water utility have risen 8% in value since our full-page report in early October, propelling the equity back to all-time high territory. Sustained market support can most aptly be linked to an increased adoption of a flight-to-safety investment strategy, as Middlesex's third-quarter financial showing was relatively unimpressive. On balance, the recent valuation gives us pause. To that end, we think the stock may encounter a bit of resistance around the \$115 price point.

Profit growth was probably modest in 2021, but should improve this year. Subsequent to weaker-than-expected earnings of \$0.65 per share in the September period, we are shaving a dime from our full-year 2021 forecast, to \$2.20 per share. Higher operating expenses, namely labor and production costs, as well as flat revenues, on a vear-over-year basis, weighed on the result. Nevertheless, we think net income can expand 7% this year, to \$2.35 per share, supported by decent organic revenue growth, increased stability in the

7.8% (4/21 proxy). Add.: 485 C Route 1 South, Suite 400, Iselin, NJ 08830. Tel.: 732-634-1500. Int.: www.middlesexwater.com. labor market, and prospects for a healthier economic backdrop.

board of directors lifted its quarterly dividend payout 6%, to \$0.29 per share. While the raise is encouraging, the current yield is hovering around 1.0%, which is significantly lower than the broader market, as well as the stock's historical average annual return.

Spending on infrastructure upgrades ought to remain a key long-term objective. Specifically, replacing aging and undertaking projects to secure water distribution and treatment facilities are likely. This suggests further rate hikes (management has a request currently pending with New Jersey regulators) are probable down the road.

The equity lacks investment appeal, at present. Middlesex stock is neutrally ranked for relative year-ahead price performance (Timeliness: 3). Looking at the 18-month and 3- to 5-year time horizons, nearly all of the growth we envision appears to already be factored into the recent quotation, despite considerably boosting our price-to-earnings multiple. Nicholas P. Patrikis January 7, 2022

(A) Diluted earnings. Next earnings report due èarly February.

(B) Dividends historically paid in mid-Feb., May, Aug., and November.■ Div'd reinvestment plan available.

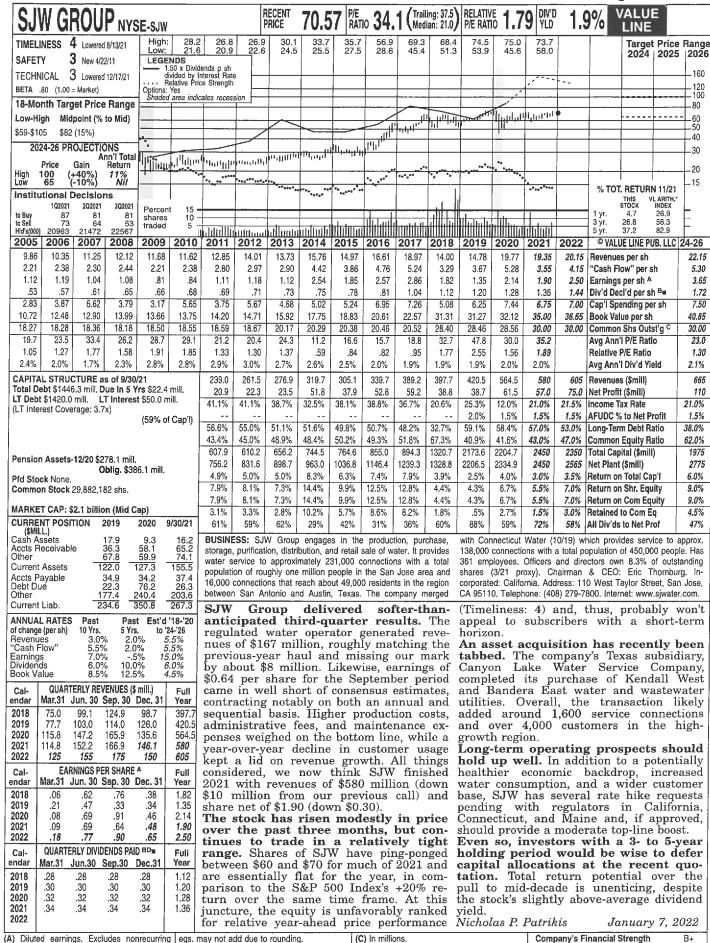
Company's Financial Strength Stock's Price Stability Price Growth Persistence

Raa

85

75

85



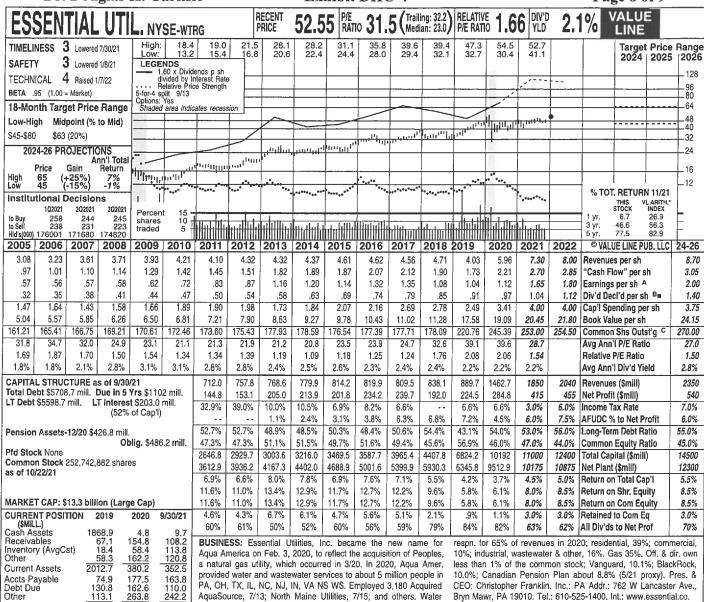
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(A) Diluted earnings. Excludes nonrecurring losses: '05, \$1.09; '06, \$16.36; '08, \$1.22; '10, (B) Dividends historically paid in early March, \$0.46. GAAP accounting as of 2013. Next earnings report due early February. Quarterly vestment plan available.

(D) Paid special dividend of \$0.17 per share on 11/17.

(E) Suspended due to recent CTWS merger.

Company's Financial Strength Stock's Price Stability 80 Price Growth Persistence 70 **Earnings Predictability** 



163.8 110.0 242.2 516.0 Est'd '18-'20 to '24-'26 10.0% 6.5% 10.0%

Cal- endar	QUAR Mar.31	TERLY RE Jun.30	VENUES ( Sep.30	\$ mill.) Dec.31	Full Year
2018	194.3	211,9	226.2	205.7	838.1
2019	201.1	218.9	243.6	226.1	889.7
2020	255.6	384.5	348.6	474.0	1462.7
2021	583.6	1850			
2022	610	435	425	570	2040
Cal-	EA	RNINGS P	ER SHARE	Α	Fulf
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year
2018	.29	.37	.44	d.02	1.08

318.8

Past

10 Yrs.

2.0% 4.5% 5.5% 7.5%

9.5%

Current Liab.

ANNUAL RATES

of change (per sh)

Revenues

Earnings Dividends

Book Value

"Cash Flow"

263.8 603.9

Past

2.0%

1.0%

-1.5% 7.5%

11.5%

6.5%

5 Yrs.

2022	010	435	425	5/0	2040
Cal-	E/	RNINGS F	ER SHAR	Dec.31	Full
endar	Mar.31	Jun.30	Sep.30		Year
2018	.29	.37	.44	d.02	1.08
2019	.09	.25	.38	.28	1.04
2020	.21	.29	.22	.40	1.12
2021	.72	.32	.19	.42	1.65
2022	. <b>73</b>	<b>.33</b>	. <b>29</b>	.45	1.80
Cal-	QUAR'		IDENDS PA	AID B =	Full
endar	Mar.31		Sep.30	Dec.31	Year

PA, OH, TX, IL, NC, NJ, IN, VA NS WS. Employed 3,180 Acquired AquaSource, 7/13; North Maine Utilities, 7/15; and others. Water

Essential Utilities probably finished 2021 in decent shape. In the third quarter, net income came in less than was expected due to damage done by Hurricane Ida and a surprise rise in payroll costs. Nevertheless, we think the water and gas utility will post share earnings of \$1.65 this year, significantly above the \$1.12 figure posted in 2020. For 2022, we think a 9% rise to \$1.80 is very obtainable. The good showing would be the result of fewer expenses related to the 2020 Peoples Gas merger and some rate relief.

A major rate case is pending in Pennsylvania. A water subsidiary of Essential (Aqua Pennsylvania) filed a petition last summer seeking to recover approximately \$1.1 billion in funds it has spent on replacing aging pipelines and upgrading other assets. Should the utility be granted its full request, bills of customers in the service area could increase by 17% for water use and almost double that for wastewater. Though these rate hikes would raise residents' monthly payments, the investment was required to improve the company's water infrastructure. We don't expect a decision to be made until

CEO: Christopher Franklin, Inc.: PA Addr.: 762 W Lancaster Ave., Bryn Mawr, PA 19010. Tel.: 610-525-1400. Int.: www.essential.co.

midyear, at the earliest.

Expansion of the rate base also continues to generate profit growth. Much like American Water Works, Essential has taken advantage of the fragmented industry to make many acquisitions. With over 50,000 individual water districts in the U.S., there is quite a bit of inefficiency in the group. By absorbing smaller entities, Essential can provide the needed capital to modernize facilities while also cutting expenses meaningfully. In 2021 alone, the company's closed and pending transactions totaled over \$500 million. The largest is the \$277 million purchase of DELCORA, a wastewater facility (currently being contested). When all of the deals are completed, Essential's customer base will increase by over 240,000.

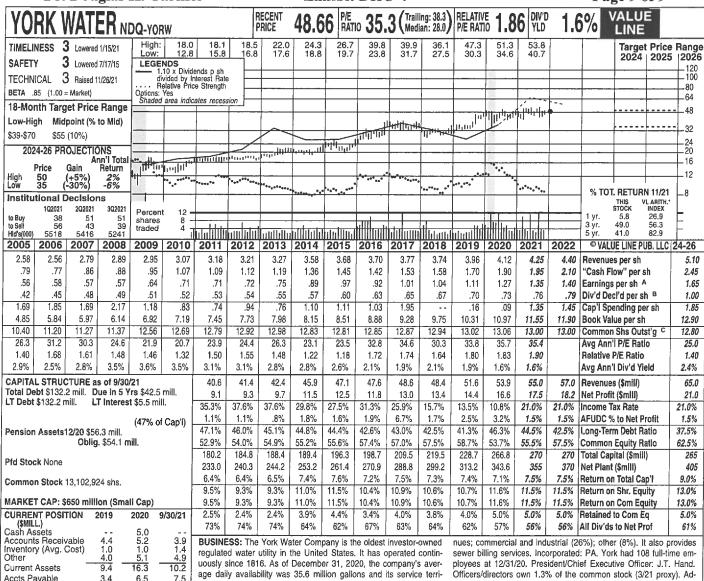
Shares of the stock have done well over the past three months. The value of the equity has climbed 11% since our last report in October. As a result, the stock's year-ahead Timeliness rank has dropped one notch to 3 (Average). Over the pull to 2024-2026, long-term total rerun potential is also not enticing.

James A. Flood January 7, 2022

(A) Diluted egs. Excl. nonrec. gains: '12, 18¢. Excl. gain from disc. operations: '12, 7¢; '13, 9¢; '14, 11¢. Quarterly EPS do not add in '19 due to a large change in the number of shares outstanding in the Dec. period. Next earnings report early February. (B) Dividends historically paid in early March, June, Sept., & Dec. Div'd. reinvestment plan available (5% dis-

(C) In millions, adjusted for stock splits (D) Includes intangibles: 9/30/21, \$2.396 bill./\$9.48 a share.

Company's Financial Strength Stock's Price Stability B+ 90 Price Growth Persistence 65 Earnings Predictability



13.2 York Water reported third-quarter fi-Past Est'd '18-'20 nancial results roughly in line with to '24-'26 expectations. Revenues of \$14.5 million 4.5% 6.0% improved modestly year over year, thanks 6.5% 6.0% to a wider customer base and higher dis-

Book Value 4.5% 4 5% QUARTERLY REVENUES (\$ mill.) Full Cal-Mar.31 Jun. 30 Sep. 30 Dec. 31 Year endar 2018 12.0 12.7 12.1 11.6 48.4 2019 13.0 13.7 13.1 51.6 2020 12.9 13.3 13.4 14.3 13.1 13.8 13.6 2021 14.5 55.0 2022 14.3 15.0 14.0 57.0 EARNINGS PER SHARE A Cal-Full Mar.31 Jun. 30 Sep. 30 endar Dec. 3 Year 2018 .29 .29 1.04 2019 .22 .28 .35 .26 1.11 2020 .31 .32 .36 .28 1.27 1.35 2021 .28 .35 .36 .36 2022 .30 .36 .38 .36 1.40 QUARTERLY DIVIDENDS PAID B Full Cal-Sep.30 Mar.31 Jun.30 Dec.31 endar Year 2018 .1666 .1666 .1666 .1733 .673 2019 .1733 .1733 .1733 .1802 .70 2020 .1802 .1802 .1802 .1874 .73 2021 .1874 .1874 .1874 .1949

15.2

5 Yrs.

2.5% 5.5%

5.5% 4.0%

Past

10 Yrs.

3.0% 6.0%

6.0% 3.5%

12.0

Debt Due Other

Revenue

Current Liab.

ANNUAL RATES

of change (per sh)

"Cash Flow" Earnings Dividends

age daily availability was 35.6 million gallons and its service territory had an estimated population of 202,000. Has more than 72,600 customers. Residential customers accounted for 66% of 2020 reve-

company posted net income of \$0.36 per

share, which was a penny shy of our call

but even with the previous-year figure. An

uptick in operation and maintenance ex-

penses during the period seemingly kept a

lid on growth. On balance, we think York

finished 2021 with revenues of \$55 million

and earnings of \$1.35 per share. For the

current year, low single-digit top- and

The board of directors increased the

quarterly dividend payment 4%, to

\$0.1949 per share. Indeed, the raise ap-

pears consistent with previous-year hikes,

and reaffirms the company's commitment

to returning capital to shareholders. That

said, at recent levels, the dividend yield is

slightly below The Value Line Investment

Long term, we think the operating landscape is bright. Most notably, York

bottom-line expansion is likely on tap.

dress: 130 East Market Street, York, Pennsylvania 17401. Telephone: (717) 845-3601. Internet: www.yorkwater.com, ought to continue to invest heavily on infrastructure upgrades in the coming years, with much of its pipes and service lines in need of improvement, on top of completing various wastewater treatment plants and tribution system improvement charges to facilities. To wit, York is able to pass along its customers. On the earnings front, the

some of these costs to its customers via approved charges from state regulators, suggesting additional rate hikes are in the cards. Moreover, in conjunction with an expanding customer base, prospects for a healthier economic environment are likely to support increased residential and busi-

ness water consumption.

York Water's investment characteristics do not jump off the page, at present. The stock is ranked to move in line with the broader market averages over the coming six to 12 months (Timeliness: 3). Looking further out, total return potential out to 2024-2026 is limited, as the equity is currently trading near the upper end of our 3- to 5-year Target Price Range. In sum, subscribers seeking exposure to the water utility industry can find better options elsewhere at this junc-

ture. Nicholas P. Patrikis

January 7, 2022

(A) Diluted earnings. Next earnings report due early February.
(B) Dividends historically paid in late February, June, September, and December.

(C) In millions, adjusted for split.

Survey median.

Company's Financial Strength Stock's Price Stability 75 Price Growth Persistence 70 Earnings Predictability

# EARNINGS PER SHARE

Company Name	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
American Water Works	\$1.72	\$2.11	\$2.06	\$2.39	\$2.64	\$2.62	\$2.38	\$3.15	\$3.43	\$3.91
American States Water Co	\$1.12	\$1.41	\$1.61	\$1.57	\$1.61	\$1.62	\$1.88	\$1.72	\$2.28	\$2.33
Artesian Resources	\$0.83	\$1.13	\$0.94	\$1.07	\$1.26	\$1.41	\$1.51	\$1.54	\$1.60	\$1.79
California Water Service Group	\$0.86	\$1.02	\$1.02	\$1.19	\$0.94	\$1.01	\$1.40	\$1.36	\$1.31	\$1.97
Global Water Resources						[1]	\$0.23	\$0.15	\$0.10	\$0.05
Middlesex Water Co	\$0.84	\$0.90	\$1.03	\$1.13	\$1.22	\$1.38	\$1.38	\$1.96	\$2.01	\$2.18
SJW Group	\$1.11	\$1.18	\$1.12	\$2.54	\$1.85	\$2.57	\$2.86	\$1.82	\$1.35	\$2.14
Essential Utilities	\$0.83	\$0.87	\$1.16	\$1.20	\$1.14	\$1.32	\$1,35	\$1.08	\$1.04	\$1.12
York Water Company	\$0.71	\$0.72	\$0.75	\$0.89	\$0.97	\$0.92	\$1.01	\$1.04	\$1.12	\$1.27

Mean (History & Estimates) Median (History & Estimates) Average of Mean & Median Average for Period or Estimates

Source: Exhibit DHC-4

Kiawah Island Utility p.2 of 2

6.70% 4.00% 11.70% 15.00%

8.25%

Yahoo!

			EARN	EARNINGS PER SHARE: HISTORY	HARE: HIS	FORY		EPS	EPS: ESTIMATES	S
		10-YEAR	10-YEAR	5-YEAR	5-YEAR	3-YEAR	3-YEAR			
Company Name	2021	Compound	Simple	Compound	Simple	Compound	Simple	ValueLine	Zacks	Yah
American Water Works	\$4.25	9.47%	10.08%	10.16%	10.95%	10.50%	10.53%	9999	1.96%	00
American States Water Co	\$2.45	8.14%	8.82%	8.63%	9.49%	12.52%	13.30%	5.63%	6.85%	9
Artesian Resources	\$1.81	8.11%	8.88%	5.12%	5.19%	5.53%	5.63%	5.45%		4
California Water Service Group	\$2.30	10.34%	12.09%	17.89%	19.84%	19.14%	21.15%	2.61%	-3.54%	11
Global Water Resources	\$0.10					-12.64%	5.56%	36.80%	3.56%	15
Middlesex Water Co	\$2.20	10.11%	10.63%	9.78%	10.79%	3.93%	3.98%	5.74%	14.42%	2
SJW Group	\$1.90	5.52%	13.62%	-5.86%	-0.72%	1.44%	7.16%	17.73%	26.98%	2
Essential Utilities	\$1.65	7.11%	8.60%	4.56%	6.72%	15.17%	17.10%	4.93%	1.52%	9
York Water Company	\$1.35	6.64%	6.82%	7.97%	8.03%	%60.6	9.13%	5.14%	3.10%	4
Mean (History & Estimates)		8.18%	9.94%	7 28%	8 79%	7 19%	10 29%	10.080%	70909	1
Median (History & Estimates)		8.13%	9.48%	8.30%	8.76%	%60'6	9.13%	5.63%	3.33%	,
Average of Mean & Median		8.15%	9.71%	7.79%	8.77%	8.14%	9.76%	7.85%	2.09%	9
Average for Period or Estimates		8.93%	3%	8.28%	3%	8.95%				)
					Historic	Historical Average	8.72%	Estimat	Estimate Average	9

2.66% 5.70%

6.40%

4.20%

7.18% 6.40% 6.79%

6.58%

7.65%

Overall Average

italics-one-yr estimates

Source: Exhibit DHC-4

**EARNINGS PER SHARE** 

# SALES/REVENUE

Dr. Douglas H. Carlisle, Jr.

In \$ millions

italicized = last quarter estimated

Company Name	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
American Water Works	\$2,666.20	\$2,876.90	• ,	\$3,011.30	\$3,159.00	-,		\$3,440.00	\$3,610,00	\$3.777.00
American States Water Co	\$419.30 \$466.90	\$466.90	\$472.10	\$465.80	\$458.60	\$436.10	\$440.60	\$436.80	\$473.90	\$488.20
Artesian Resources	\$62.10	\$70.60		\$72.50	\$77.00	\$79.10		\$80.40	\$83.60	\$88,10
California Water Svc. Group	\$501.80	\$560.00		\$597.50	\$588.40	\$609.40		\$698.20	\$714.60	\$794.30
Global Water Resources					\$32.00	\$29.80		\$35.50	\$35.50	\$38.60
Middlesex Water Co	\$102.10	\$110.40	\$114.80	\$117.10	\$126.00	\$132.90		\$138,10	\$134.60	\$141.60
SJW Group	\$239.00	\$261.50	\$276.90	\$319.70	\$305.10	\$339.70		\$397.70	\$420.50	\$564.50
Essential Utilities	\$712.00	\$757.80	\$768.60	\$779.90	\$814.20	\$819.90		\$838,10	\$889.70	\$1.462.70
York Water Company	\$40.60	\$41.40	\$42.40	\$45.90	\$47.10	\$47.60		\$48.40	\$51.60	\$53.90

Median (History & Estimates) Mean (History & Estimates)

Average for Period or Estimates Average of Mean & Median

Source: Exhibit DHC-4

Utility	2 of 2
Island	p.
Kiawah	

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In \$ millions

italicized = last quarter estimated			HISTORI	HISTORICAL SALES/REVENUE GROWTH	EVENUE G	ROWTH
		10-YEAR	AR	5-YEAR	1R	3-YE/
Company Name	2021	2021 Compound	Simple	Compound	Simple	Compound
American Water Works	\$3,965.00	4.05%	4.07%	3.73%	3.74%	4.86%
American States Water Co	\$510.00	1.98%	2.08%	3.18%	3.23%	5.31%
Artesian Resources	,			2.73%	2.76%	2.34%
California Water Svc. Group	\$820.00	5.03%	5.11%	6.12%	6.17%	5.52%
Global Water Resources				3.82%	6.80%	7.37%
Middlesex Water Co	\$145.00	3.57%	3.63%	1.76%	1.81%	1,64%
SJW Group	\$580.00	9.27%	9.70%	11.29%	11.90%	13.43%
Essential Utilities	\$1,850.00	10.02%	11.37%	17.67%	19.86%	30.27%
York Water Company	\$55.00	3.08%	3.11%	2.93%	2.96%	4.36%

Average of Mean & Median

Median (History & Estimates) Mean (History & Estimates)

Average for Period or Estimates

4.56%

4.32%

7.01%

5.16%

4.82%

4.82%

4.82% 4.67%

4.99%

6.92% 6.83%

5.01% 4.10%

4.37% 4.26%

8.70% 5.33%

8.34% 5.31%

6.58%

5.91% 3.73%

5.58% 4.07%

5.29% 4.05%

3.74%

10.50% 4.30%

3.28%

1.7% 14.2% 32.3% 4.4%

3.48%

6.70% 3.60%

6.16%

4.26%

5.01%

4.44%

5.58%

Historical Average Estimate Avg. | Overall Avg.

Source: Exhibit DHC-4

	_							
	REV	TES	Yahoo!	0.09%	4.10%	2.20%	3.80%	9.80%
	SALE3S/REV	ESTIMATES	ValueLine	5.44%	6.05%		1.93%	
		AR	Simple	4.8%	5.3%	2.4%	2.6%	7.5%
	HISTORICAL SALES/REVENUE GROWTH	3-YEAR	Compound	4.86%	5.31%	2.34%	5.52%	7.37%
		4R	Simple	3.74%	3.23%	2.76%	6.17%	%08'9
	CAL SALES/F	5-YEAR	Compound	3.73%	3.18%	2.73%	6.12%	3.82%
	HISTOR	AR	<u>Simple</u>	4.07%	2.08%		5.11%	
		10-YEAR	Compound	4.05%	1.98%		5.03%	

# **DIVIDENDS PER SHARE**

company name	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
American Water Works	\$0.90	\$1.21	\$0.84	\$1.21	\$1.33	\$1.47	\$1.62	\$1.78	\$1.96	\$2.15 \$2.15
American States Water Co	\$0.55	\$0.64	\$0.76	\$0.83	\$0.87	\$0.91	\$0.99	\$1.06	\$1.16	¢1.28
Artesian Resources	\$0.76	\$0.79	\$0.82	\$0.85	\$0.87	\$0.90	\$0.93	\$0.96	\$0.98	\$1.01
California Water Service Group	\$0.62	\$0.63	\$0.64	\$0.65	\$0.67	\$0.69	\$0.72	\$0.75	\$0.79	10.00
Global Water Resources						\$0.17	\$0.28	¢0.28	¢0.00	00.04
Middlesex Water Co	\$0.73	\$0.74	\$0.75	80.76	\$0.78	¢0.81	70.00	40.20	40.67	\$0.23
SJW Group	\$0.69	\$0.71	\$0.73	\$0.75	\$0.78	40.01 40.81	\$1.00	\$0.9T	\$0.98	\$1.04
Essential Utilities	\$0.50	\$0.54	\$0.58	\$0.63	\$0.69	\$0.74	£0.14	\$1.1¢	\$1.20 \$0.01	\$7.14
York Water Company	\$0.53	\$0.54	\$0.55	\$0.57	\$0.60	\$0.63	\$0.65	\$0.67	\$0.70	\$0.73
										)

Mean (History & Estimates) Median (History & Estimates) Average of Mean & Median Average for Period or Estimates Source: Exhibit DHC-4

Utility	
Island	
Kiawah	

# Docket # 2021-324-WS Exhibit DHC-7

				DIVIDENDS PER SHARE	ER SHARE			DPS	
		10-YEAR HISTORY	IISTORY	5-YEAR HISTORY	STORY	3-YEAR HISTORY	ISTORY	ESTIMATES	
Company Name	2021	Compound	<u>Simple</u>	Compound	Simple	Compound	Simple	ValueLine	
American Water Works	\$2.36	10.12%	11.80%	9.93%	9.93%	%98.6	6.86%	7.06%	
American States Water Co	\$1.40	6.79%	%88%	%00.6	%00.6	9.72%	9.72%	9.33%	
Artesian Resources				3.03%	3.03%	2.79%	2.79%		
California Water Service Group	\$0.92	4.03%	4.05%	5.92%	5.94%	7.05%	7.05%	5.74%	
Global Water Resources	\$0.29			11.27%	13.66%	1.18%	1.19%		
Middlesex Water Co	\$1,11	4.28%	4.31%	6.50%	6.51%	6.85%	6.85%	5.02%	_
SJW Group	\$1.36	7.02%	7.24%	10.92%	11.23%	%69.9	%69.9		
Essential Utilities	\$1.04	7.60%	7.60%	7.04%	7.04%	%96.9	%96.9	7.71%	
York Water Company	\$0.76	3.67%	3.68%	3.82%	3.82%	4.29%	4.29%		
Mean (History & Estimates)		6.64%	6.94%	7.49%	7.80%	6.15%	6.15%	6.86%	
Median (History & Estimates)		7.02%	7.24%	7.04%	7.04%	6.85%	6.85%	7.06%	Overall
									Average
Average of Mean & Median		6.83%	7.09%	7.27%	7.42%	6.50%	6.50%	%96'9	6.95%
Average for Period or Estimates		%96.9	%	7.34%	%	%05'9	%	Avg. Estimate	

Source: Exhibit DHC-4

Dr. Douglas H. Carlisle

**DIVIDENDS PER SHARE** 

# **DCF SUMMARY**

5.81% Book value g (see Exhibit DHC-3)
7.65% Earnings g (see Exhibit DHC-5)
5.01% Sales/Revenue (see Exhibit DHC-6)
6.95% Dividend g (see Exhibit DHC-7)
6.35% Average g
1.88% DIV Y (see Exhibit DHC-10)
7.68% g +DIV Y

0.06% DIV Y \* (g/2) 7.74% = DCF

Dr. Douglas H. Carlisle, Jr.				Docket # 2 Exhib	Oocket # 2021-324-WS Exhibit DHC-9	۸۶					Kiawah Island Utility p. 1 of 1	d Utility p. 1 of 1
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
American Water Works	3.10%	3.40%	2.00%	2.50%	2.50%	2.00%	2.00%	2 10%	1 70%	1 60%	1 400%	
American States Water Co	3.20%	3.10%	2.70%	2.60%	2.20%	2.20%	2.00%	1.80%	1.50%	1.60%	1.10%	
			3.70%	3.90%	3.80%	3.10%	2.50%	2.60%	2.70%	2.80%	0/0/:-	
California Water Svc. Group	3.40%	3.50%	3.10%	2.80%	2.90%	2.30%	1.90%	1.80%	1.50%	1.70%	1.50%	
Global Water Resources												
Middlesex Water Co	4.00%	4.00%	3.70%	3.70%	3.30%	2.30%	2.20%	2.10%	1.60%	1.60%	1.20%	
	2.90%	3.00%	2.70%	2.60%	2.50%	2.00%	1.90%	1.90%	1.90%	2,00%	2.00%	
	2.80%	2.80%	2.40%	2.50%	2.60%	2.30%	2.40%	2.40%	2.20%	2.20%	2.20%	
York Water Company	3.10%	3.10%	2.80%	2.80%	2.60%	2.10%	1.90%	2.10%	1.90%	1.60%	1.60%	
Mean Yield	3.21%	3.27%	2.89%	2.93%	2.80%	2.29%	2.10%	2.10%	1.88%	1.89%	1.66%	

4.00% (2011) 1.20% (2021)

Ten-year Maximum Ten-year Minimum

Source: Exhibit DHC-4)

# FALL AND RECOVERY OF DIVIDEND YIELDS

	Dividend Yield in	Forward Dividend		Highest	Highest Minus	Forward Yield's % Below
Company Name	ValueLine*	Yield‡	Increase	Yield†	ValueLine	Highest
American Water Works	1.40	1.61	0.21	3.40	2.00	47%
American States Water Co	1.50	1.69	0.19	3.20	1.70	53%
Artesian Resources	2.30	2.32	0.02	3.90	1.60	59%
California Water Svc. Group	1.30	1.70	0.40	3.40	2.10	50%
Global Water Resources	1.70	1.94	0.24	2.20	0.50	88%
Middlesex Water Co	1.00	1.20	0.20	4.00	3.00	30%
SJW Group	1.90	2.26	0.36	3.00	1.10	75%
Essential Utilities	2.10	2.34	0.24	2.80	0.70	84%
York Water Company	1.60	1.82	0.22	3.10	1.50	59%
Average	1.64	1.88	0.23	3.22	1.58	61%

<sup>\*</sup>Exhibit DHC-4

<sup>‡</sup>Yahoo!Finance 02/10/22

 $<sup>\</sup>dagger$  Exhibit DHC-9 table of historical figures

# Book Value 5 Yr Growth

		diowaii		
Company Name	Beta	Rate	Industry	Div Yield
U S Lime and Minerals	0.65		Metals & Mining (Div.)	0.5%
Activision Blizzard Inc	0.65	11.0	Entertainment Tech	0.6%
Micropac Industries Inc	0.65	5.5	Semiconductor	0.6%
Dollar General Corporation	0.65	7.5	Retail Store	0.8%
Logitech International SA	0.65	15.5	Computers/Peripherals	1.3%
IF Bancorp Inc	0.65	4.5	Thrift	1.4%
Security Federal Corporation	0.65	7.5	Bank	1.4%
Greene County Bancorp Inc	0.65	14.0	Thrift	1.4%
First National Corp	0.65	12.0	Bank	2.1%
Monarch Cement Co	0.65	11.0	Building Materials	2.1%
Southern Michigan Bancorp Inc	0.65		Bank (Midwest)	2.4%
Erie Indemnity Company	0.65		Insurance (Prop/Cas.)	2.5%
JM Smucker Company	0.65		Food Processing	2.8%
Eagle Financial Services Inc	0.65		Bank	3.2%
Conagra Brands	0.65		Food Processing	3.5%
QNB Corp	0.65		Bank	3.9%
Norwood Financial Corp	0.65		Bank	4.1%
Verizon Communications Inc	0.65		Telecom. Services	4.8%
NASB Financial Inc	0.65		Thrift	5.0%
Balchem Corp.	0.70		Chemical (Specialty)	0.4%
MarketAxess Holdings	0.70		Brokers & Exchanges	0.7%
Internet Initiative Japan Inc	0.70		Telecom. Services	1.3%
FUJIFILM Holdings Corporation	0.70		Foreign Electronics	1.4%
Southern Missouri Bancorp Inc	0.70		Thrift	1.5%
Target Corp	0.70		Retail Store	1.7%
Houlihan Lokey	0.70		Investment Banking	1.7%
Bank of the James Financial Group Inc	0.70		Bank	1.8%
Guaranty Federal Bancshares Inc	0.70		Thrift	1.8%
Lancaster Colony Corporation	0.70		Food Processing	2.0%
Premier Inc.	0.70		Healthcare Information	2.1%
Colony Bankcorp Inc	0.70		Bank	2.4%
First Community Corp	0.70		Bank	2.5%
BEO Bancorp	0.70		Bank	2.5%
Mid Penn Bancorp Inc	0.70	13.0		2.6%
Peoples Financial Services Corp	0.70		Bank	3.1%
F and M Bank Corporation	0.70		Bank	3.3%
Natl HealthCare Corp.	0.70		Medical Services	3.4%
LCNB Corp	0.70		Bank (Midwest)	4.1%
Juniata Valley Financial Corp	0.70		Bank (Midwest)	5.4%
Alico Inc	0.70			
Coca-Cola Consol.			Food Processing	5.6%
	0.75		Beverage	0.2%
Progressive Corp.	0.75		Insurance (Prop/Cas.)	0.4%
Hingham Institution for Savings	0.75		Thrift	0.6%
Murphy USA Inc	0.75		Retail (Hardlines)	0.6%
Ormat Technologies Inc	0.75		Power	0.7%
PriceSmart	0.75		Retail Store	1.0%
Werner Enterprises Inc	0.75	9.5	Trucking	1.1%

# Book Value 5 Yr

		Growth		
Company Name	Beta	Rate	Industry	Div Yield
Utah Medical Products Inc	0.75	9.0	Med Supp Invasive	1.2%
Becton Dickinson and Company	0.75	20.5	Med Supp Invasive	1.3%
MAXIMUS Inc	0.75	17.0	Industrial Services	1.5%
Pathfinder Bancorp Inc	0.75	9.5	Thrift	1.6%
CSG Systems International Inc	0.75	2.0	IT Services	1.8%
Tyson Foods	0.75	11.0	Food Processing	2.0%
CH Robinson Worldwide Inc	0.75	12.0	Industrial Services	2.1%
Miller Industries Inc	0.75	8.5	Heavy Truck & Equip	2.2%
Hawthorn Bancshares Inc	0.75	8.0	Bank (Midwest)	2.3%
NewMarket Corporation	0.75	7.5	Chemical (Specialty)	2.5%
Employers Holdings Inc	0.75	11.5	Insurance (Prop/Cas.)	2.6%
Landmark Bancorp Inc	0.75	7.5	Thrift	2.7%
Digital Realty Trust Inc	0.75	17.0	R.E.I.T.	3.0%
CCFNB Bancorp Inc	0.75	3.0	Bank	3.1%
Wayne Savings Bancshares Inc	0.75	5.5	Thrift	3.2%
Oil Dri Corp of America	0.75	5.0	Chemical (Specialty)	3.2%
Croghan Bancshares Inc	0.75	6.5	Bank (Midwest)	3.4%
Ames National Corp	0.75	4.5	Bank (Midwest)	4.2%
West Pharmaceutical Services Inc	0.80	10.0	Med Supp Non-Invasive	0.2%
Danaher Corp	0.80	6.0	Diversified Co.	0.3%
AAON Inc	0.80	12.0	Machinery	0.6%
New York Times Co	0.80	6.5	Publishing	0.7%
Waste Connections	0.80		Environmental	0.8%
Marten Transport Ltd	0.80		Trucking	1.0%
Elbit Systems Ltd	0.80		Aerospace/Defense	1.1%
Stepan Company	0.80		Chemical (Specialty)	1.2%
Johnson Outdoors Inc	0.80	12.5	Recreation	1.4%
Waste Management	0.80		Environmental	1.5%
Novo Nordisk	0.80		Drug	1.5%
McCormick and Co	0.80		Food Processing	1.5%
Equinix Inc	0.80		R.E.I.T.	1.6%
Canterbury Park Holding Corp	0.80		Hotel/Gaming	1.6%
Acme United Corp	0.80		Med Supp Non-Invasive	1.7%
Quest Diagnostics Inc	0.80		Medical Services	1.8%
Comcast Corporation	0.80		Cable TV	2.0%
Prudenital Bancorp Inc of Pennsylvania	0.80		Thrift	2.0%
American Tower Corporation	0.80		Wireless Networking	2.3%
Bank of Botetourt Buchanan V	0.80		Financial Svcs. (Div.)	2.3%
Autohome Inc	0.80		Internet	2.5%
First Capital Inc	0.80		Thrift	2.5%
AmeriServ Financial Inc	0.80		Bank	2.6%
United Bancshares Inc	0.80		Bank (Midwest)	2.6%
Intel Corporation	0.80		Semiconductor	2.7%
ESSA Bancorp Inc	0.80		Thrift	2.7%
Codorus Valley Bancorp	0.80		Bank	2.7%
ACNB Corporation	0.80		Bank	3.1%
Park National Corp	0.80	5.5	Bank (Midwest)	3.1%

# Book Value 5 Yr

		Growth	
Company Name	Beta	Rate Industry	Div Yield
Summit State Bank	0.80	5.0 Bank	3.1%
Toyota Motor Corporation	0.80	7.5 Automotive	3.3%
CompX International Inc	0.80	7.5 Machinery	3.7%
Sanofi	0.80	1.0 Drug	3.8%
Escalade Inc	0.80	7.0 Diversified Co.	4.1%
National Bankshares Inc	0.80	4.5 Bank	4.1%
Safety Insurance Group Inc	0.80	3.5 Insurance (Prop/Cas	s.) 4.5%
New York Community Bancorp Inc	0.80	1.0 Thrift	5.6%
Wipro Ltd	0.85	8.0 IT Services	0.2%
Thermo Fisher Scientific Inc	0.85	9.0 Precision Instrumen	t 0.2%
Chemed Corporation	0.85	11.0 Diversified Co.	0.3%
Bio-Techne Corp.	0.85	9.5 Biotechnology	0.3%
Helios Technologies	0.85	18.5 Diversified Co.	0.5%
Morningstar Inc	0.85	22.0 Asset Management	0.5%
Verisk Analytics Inc	0.85	27.5 Information Services	0.6%
Agilent Technologies	0.85	3.5 Precision Instrument	t 0.6%
Landstar System Inc	0.85	11.0 Trucking	0.6%
MGP Ingredients	0.85	18.5 Beverage	0.6%
Pool Corporation	0.85	12.0 Recreation	0.7%
Warrior Met Coal Inc	0.85	10.0 Metals & Mining (Div	7.) 0.8%
Independence Holding Company	0.85	13.0 Insurance (Life)	0.8%
Microsoft Corporation	0.85	9.5 Computer Software	0.8%
Tractor Supply Co	0.85	8.0 Retail Building Suppl	y 1.0%
Jack Henry and Associates Inc	0.85	8.5 IT Services	1.1%
Rollins Inc	0.85	11.5 Industrial Services	1.3%
AptarGroup Inc	0.85	5.0 Packaging & Containe	er 1.3%
Silgan Holdings Inc	0.85	11.5 Packaging & Containe	er 1.3%
Hawkins Inc	0.85	4.5 Chemical (Diversified	1.4%
AO Smith Corp	0.85	6.5 Machinery	1.5%
Embassy Bancorp Inc	0.85	10.0 Bank	1.5%
Taiwan Semiconductor Manufacturing Co Ltd	0.85	12.5 Semiconductor	1.5%
Sound Financial Bancorp Inc	0.85	6.5 Bank	1.5%
Northrop Grumman Corp Holding Co	0.85	7.0 Aerospace/Defense	1.6%
Canadian National Railway Co	0.85	6.5 Railroad	1.6%
Broadridge Fin'l	0.85	8.5 Information Services	1.6%
Hershey Company	0.85	7.0 Food Processing	1.8%
Enterprise Bancorp Inc	0.85	9.0 Bank	2.0%
Mondelez International Inc	0.85	1.0 Food Processing	2.0%
ManTech International Corporation	0.85	3.5 IT Services	2.1%
Community West Bancshares	0.85	6.5 Bank	2.1%
Standard Motor Products Inc	0.85	7.0 Auto Parts	2.1%
Peoples Bancorp of N C Inc	0.85	7.5 Bank	2.4%
Fidelity D and D Bancorp Inc	0.85	8.0 Bank	2.6%
Cambridge Bancorporation	0.85	11.5 Bank	2.7%
Watsco Inc	0.85	8.0 Retail Building Supply	2.8%
NBT Bancorp	0.85	5.5 Bank	2.9%
Nobility Homes Inc	0.85	8.0 Diversified Co.	3.1%

# Kiawah Island Utility p. 4 of 6

# **RETROSPECTIVE CEM**

# Book Value 5 Yr Growth

		Growth		
Company Name	Beta	Rate	Industry	Div Yield
First Guaranty Bancshares Inc.	0.85	7.0	Bank	3.2%
Crown Castle International Corporation	0.85	7.5	Wireless Networking	3.2%
Camden National Corporation	0.85	7.5	Bank	3.2%
Bank South Carolina Corp	0.85	6.0	Bank	3.4%
United Bancorp Inc Ohio	0.85	6.0	Bank (Midwest)	3.5%
Walgreens Boots	0.85	2.0	Retail Store	3.6%
Lake Shore Bancorp Inc	0.85	3.0	Thrift	3.8%
Territorial Bancorp Inc	0.85	2.0	Bank	3.8%
Waterstone Financial Inc	0.85	6.0	Thrift	3.9%
Healthcare Realty Trust Inc	0.85	2.0	R.E.I.T.	4.0%
Community Bancorp Inc	0.85	6.5	Bank	4.1%
Agree Realty Corp	0.85	12.0	R.E.I.T.	4.3%
AT&T	0.85	6.0	Telecom. Services	7.8%
PerkinElmer Inc	0.90	8.5	Precision Instrument	0.2%
CSW Industrials	0.90	5.0	Petroleum (Producing)	0.5%
ICF International Inc	0.90		Industrial Services	0.6%
ResMed Inc	0.90	7.5	Med Supp Non-Invasive	0.7%
Cable One	0.90		Cable TV	0.7%
Sherwin Williams	0.90		Retail Building Supply	0.8%
Power Integrations Inc	0.90		Semiconductor	0.8%
Caseys General Stores Inc	0.90		Retail/Wholesale Food	0.8%
Friedman Industries Inc	0.90		Steel	0.8%
Exponent Inc.	0.90		Information Services	0.9%
Chase Corp	0.90		Building Materials	1.1%
AudioCodes Ltd	0.90		Telecom. Equipment	1.1%
Brown Forman Corp (Class B)	0.90		Beverage	1.1%
Cerner Corp	0.90		Healthcare Information	1.2%
Heidrick and Struggles International Inc	0.90		Human Resources	1.4%
Republic Services Inc	0.90		Environmental	1.4%
Selective Insurance Group Inc	0.90		Insurance (Prop/Cas.)	1.5%
Abbott Laboratories	0.90		Med Supp Non-Invasive	1.5%
Commerce Bancshares Inc	0.90		Bank (Midwest)	1.5%
Choe Global Markets	0.90		Brokers & Exchanges	1.6%
FirstCash Holdings	0.90		Financial Svcs. (Div.)	1.7%
Booz Allen Hamilton Holding Corporation	0.90		Industrial Services	1.7%
Amdocs Ltd	0.90		IT Services	1.9%
Duke Realty Corporation	0.90		R.E.I.T.	1.9%
Lakeland Financial Corp	0.90		Bank (Midwest)	2.0%
Air Products and Chemicals Inc	0.90		Chemical (Diversified)	2.1%
Eagle Bancorp Montana Inc	0.90		Thrift	2.1%
German American Bancorp Inc	0.90		Bank (Midwest)	2.2%
Eastgroup Properties Inc	0.90		R.E.I.T.	2.2%
Alexandria Real Estate Equities Inc	0.90		R.E.I.T.	2.3%
PS Business Parks Inc	0.90		R.E.I.T.	2.5%
Ingredion Incorporated	0.90		Food Processing	2.7%
Trustmark Corp	0.90		Bank	2.8%
Tompkins Financial Corporation	0.90		Bank	2.8%
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# Book Value 5 Yr Growth

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Company Name	Beta	Rate	Industry	Div Yield
Westamerica Bancorporation	0.90	5.5	Bank	2.9%
Arrow Financial Corporation	0.90	7.5	Bank	3.0%
City Holding Co	0.90	9.0	Bank	3.0%
Farmers National Banc Corp	0.90	10.0	Bank (Midwest)	3.0%
Southside Bancshares Inc	0.90		Bank	3.1%
Northfield Bancorp Inc	0.90	2.0	Bank	3.1%
FutureFuel Corp	0.90	2.5	Chemical (Diversified)	3.2%
Armanino Foods of Distinction Inc New	0.90		Food Processing	3.3%
Horace Mann Educators Corporation	0.90		Financial Svcs. (Div.)	3.3%
LXP Industrial Trust.	0.90		R.E.I.T.	3.4%
Community Trust Bancorp Inc	0.90		Bank	3.6%
Franklin Financial Services Corp	0.90		Bank	3.8%
First Bancorp Inc	0.90		Bank	4.0%
First Interstate BancSystem Inc	0.90		Bank	4.2%
Citizens and Northern Corp	0.90		Bank	4.5%
Fresenius Medical ADR	0.90		Medical Services	4.7%
Healthcare Services Group Inc	0.90		Industrial Services	4.7%
Cooper Companies Inc	0.95		Med Supp Non-Invasive	0.0%
White Moutains Insurance Group Ltd	0.95			0.0%
Old Dominion Freight Line Inc	0.95		Insurance (Prop/Cas.)	0.1%
Simulations Plus Inc	0.95		Trucking	0.5%
Tetra Tech			Computer Software	
	0.95		Environmental	0.6%
UniFirst Corp	0.95		Industrial Services	0.6%
Brown and Brown Inc	0.95		Financial Svcs. (Div.)	0.6%
St Joe Company	0.95		Engineering & Const	0.7%
Xilinx Inc	0.95		Semiconductor	0.8%
J B Hunt Transport Services Inc	0.95		Trucking	0.8%
Estee Lauder Companies Inc	0.95		Toiletries/Cosmetics	0.8%
Franklin Electric Co Inc	0.95		Electrical Equipment	0.8%
Omega Flex Inc	0.95		Metal Fabricating	0.9%
Ball Corp	0.95		Packaging & Container	0.9%
Expeditors International of Washington Inc	0.95		Industrial Services	1.0%
LeMaitre Vascular Inc	0.95		Med Supp Invasive	1.0%
Intercontinental Exch.	0.95	6.5	Brokers & Exchanges	1.1%
Dolby Laboratories Inc	0.95	6.0	Entertainment Tech	1.2%
Accenture Plc New	0.95	20.5	IT Services	1.2%
First Financial Bankshares Inc	0.95	12.5	Bank	1.2%
Vail Resorts	0.95	9.0	Hotel/Gaming	1.3%
MSA Safety	0.95	5.0	Machinery	1.3%
Matson Inc	0.95	17.0	Maritime	1.3%
Marsh and McLennan Companies Inc	0.95	4.0	Financial Svcs. (Div.)	1.4%
Unity Bancorp Inc	0.95	14.0	Bank	1.4%
Service Corp International Inc	0.95	8.5	Industrial Services	1.5%
Gentex Corp	0.95		Auto Parts	1.5%
Kforce Inc.	0.95	8.5	Human Resources	1.5%
CME Group Inc	0.95	3.5	Brokers & Exchanges	1.6%
SAP AE	0.95		Computer Software	1.7%
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# Book Value 5 Yr Growth

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Company Name	Beta	Rate	Industry	Div Yield
Gorman Rupp Co	0.95	2.0	Heavy Truck & Equip	1.7%
Infosys Limited	0.95	3.0	IT Services	1.7%
Analog Devices Inc	0.95	15.0	Semiconductor	1.7%
Stock Yards Bancorp Inc	0.95	9.0	Bank	1.8%
Assurant Inc	0.95	11.0	Financial Svcs. (Div.)	1.9%
Open Text Corp	0.95	14.5	E-Commerce	1.9%
GATX Corp	0.95	11.5	Railroad	2.1%
Hackett Group Inc	0.95	7.0	Industrial Services	2.1%
Bankwell Financial Group Inc	0.95	6.5	Bank	2.2%
CVS Caremark Corporation	0.95	8.0	Retail Store	2.2%
Fastenal Co	0.95	7.5	Retail Building Supply	2.2%
Garmin Ltd	0.95	7.0	Electrical Equipment	2.2%
Hanover Insurance Group Inc	0.95	4.5	Insurance (Prop/Cas.)	2.3%
International Flavors and Fragrances Inc	0.95	25.0	Chemical (Specialty)	2.3%
Salisbury Bancorp Inc	0.95	1.0	Bank	2.3%
Superior Group of Companies	0.95	12.5	Industrial Services	2.3%
First Financial Corporation	0.95	5.5	Bank (Midwest)	2.4%
Republic Bancorp Inc	0.95	6.0	Bank	2.5%
Extra Space Storage	0.95	4.5	R.E.I.T.	2.6%
Carters Inc	0.95	5.0	Apparel	2.6%
First Financial Northwest Inc	0.95	4.5	Bank	2.6%
Chemung Financial Corporation	0.95	5.5	Bank	2.7%
Packaging Corp	0.95	15.5	Packaging & Container	3.0%
C and F Financial Corp	0.95	6.0	Bank	3.0%
American National Bankshares Inc	0.95	5.0	Bank	3.0%
Koninklijke Philips NV	0.95	1.0	Foreign Electronics	3.1%
West Bancorporation Inc	0.95	6.0	Bank (Midwest)	3.2%
CVB Financial Corp	0.95	11.5	Bank	3.2%
First Community Bancshares Inc	0.95	4.5	Bank	3.3%
Heritage Financial Corp	0.95	8.5	Bank	3.4%
Kearny Financial	0.95	4.5	Thrift	3.4%
Macatawa Bank Corporation	0.95	8.5	Bank (Midwest)	3.5%
Telephone and Data Systems Inc New	0.95	2.0	Telecom. Services	3.6%
MSC Industrial Direct Co Inc	0.95	2.5	Machinery	3.6%
Strategic Education	0.95	52.0	Educational Services	4.4%
Penns Woods Bancorp Inc	0.95	3.5	Bank	5.3%
United Security Bancshares	0.95	7.0	Bank	5.4%
Northwest Bancshares Inc	0.95		Thrift	5.6%
Consolidated Tomoka Land Co	0.95		Diversified Co.	6.7%
Brit. Am. Tobacco ADR	0.95		Tobacco	7.0%
Altria Group Inc	0.95	30.0	Tobacco	7.2%

Mean Median Average of Mean & Median Source: Value Line database 9.08 7.50 **8.29** 

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				3 To 5 Year	
Company Name	Ticker	Beta	Industry	<b>Growth Rate</b>	DIV Yield
Activision Blizzard Inc	ATVI	0.65	Entertainment Tech	13.0	0.6%
Dollar General Corporation	DG	0.65	Retail Store	6.0	0.8%
Logitech International SA	LOGI	0.65	Computers/Peripherals	22.5	1.3%
Royal Gold Inc	RGLD	0.65	Precious Metals	4.0	1.4%
Colgate Palmolive Co	CL	0.65	Household Products	65.0	2.2%
Erie Indemnity Company	ERIE	0.65	Insurance (Prop/Cas.)	11.5	2.5%
JM Smucker Company	SJM	0.65	Food Processing	4.5	2.8%
Conagra Brands	CAG	0.65	Food Processing	6.5	3.5%
Balchem Corp.	BCPC		Chemical (Specialty)	9.5	0.4%
MarketAxess Holdings	MKTX	0.7	Brokers & Exchanges	15.5	0.7%
Target Corp	TGT	0.7	Retail Store	9.0	1.7%
Houlihan Lokey	HLI		Investment Banking	13.5	1.7%
Lancaster Colony Corporation	LANC	0.7	Food Processing	0.8	2.0%
Premier Inc.	PINC	0.7	Healthcare Information	6.0	2.1%
Procter and Gamble Co	PG	0.7	Household Products	7.0	2.1%
Kimberly Clark Corp	KMB		Household Products	78.5	3.2%
Unilever PLC	UL		Food Processing	10.0	4.1%
Coca-Cola Consol.	COKE		Beverage	13.0	0.2%
Progressive Corp.	PGR		Insurance (Prop/Cas.)	10.0	0.4%
Murphy USA Inc	MUSA		Retail (Hardlines)	15.5	0.6%
Ormat Technologies Inc	ORA		Power	5.5	0.7%
PriceSmart	PSMT		Retail Store	5.0	1.0%
Werner Enterprises Inc	WERN		Trucking	11.5	1.1%
Becton Dickinson and Company	BDX		Med Supp Invasive	5.0	1.3%
MAXIMUS Inc	MMS		Industrial Services	9.5	1.5%
Eli Lilly and Co	LLY	0.75		18.0	1.6%
CSG Systems International Inc	CSGS		IT Services	7.0	1.8%
Tyson Foods	TSN		Food Processing	8.5	2.0%
CH Robinson Worldwide Inc	CHRW		Industrial Services	7.0	2.1%
PepsiCo Inc	PEP		Beverage	6.0	2.5%
NewMarket Corporation	NEU		Chemical (Specialty)	7.5	2.5%
Digital Realty Trust Inc	DLR		R.E.I.T.	5.5	3.0%
Amgen Inc West Pharmaceutical Services Inc	AMGN		Biotechnology	9.0	3.4%
	WST		Med Supp Non-Invasive	12.0	0.2%
Danaher Corp AAON Inc	DHR		Diversified Co.	10.0	0.3%
New York Times Co	AAON NYT		Machinery	17.5	0.6%
Waste Connections	WCN		Publishing Environmental	10.5 4.0	0.7%
Elbit Systems Ltd	ESLT			11.5	0.8% 1.1%
Stepan Company	SCL		Aerospace/Defense Chemical (Specialty)	7.5	1.1%
Waste Management	WM		Environmental	5.0	1.5%
Novo Nordisk	NVO	1 8.0		8.5	1.5%
McCormick and Co	MKC		Food Processing	9.0	1.5%
Equinix Inc	EQIX		R.E.I.T.	7.5	1.6%
Quest Diagnostics Inc	DGX		Medical Services	9.0	1.8%
Comcast Corporation	CMCSA		Cable TV	9.5	2.0%
United Parcel Service	UPS		Air Transport	46.0	2.0%
Public Storage	PSA		R.E.I.T.	5.0	2.3%
American Tower Corporation	AMT		Wireless Networking	4.0	2.3%
Intel Corporation	INTC		Semiconductor	4.0	2.7%
Pfizer Inc	PFE	0.8		4.5	3.0%
Park National Corp	PRK		Bank (Midwest)	5.0	3.1%
Toyota Motor Corporation	TM		Automotive	5.0	3.3%

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				3 To 5 Year	
Company Name	Ticker	Beta	Industry	<b>Growth Rate</b>	DIV Yield
Merck and Co Inc	MRK	0.8	Drug	4.0	3.5%
Sanofi	SNY	0.8	Drug	5.5	3.8%
Ennis Inc.	EBF	0.8	Office Equip/Supplies	3.0	5.3%
New York Community Bancorp Inc	NYCB	0.8	Thrift	3.5	5.6%
Thermo Fisher Scientific Inc	TMO	0.85	Precision Instrument	11.0	0.2%
Chemed Corporation	CHE	0.85	Diversified Co.	11.0	0.3%
Bio-Techne Corp.	TECH	0.85	Biotechnology	4.5	0.3%
Ferrari N.V.	RACE	0.85	Automotive	17.0	0.4%
Helios Technologies	HLIO	0.85	Diversified Co.	10.0	0.5%
Verisk Analytics Inc	VRSK	0.85	Information Services	11.5	0.6%
Agilent Technologies	Α	0.85	Precision Instrument	12.5	0.6%
MGP Ingredients	MGPI	0.85	Beverage	20.5	0.6%
Pool Corporation	POOL		Recreation	29.5	0.7%
Warrior Met Coal Inc	HCC	0.85	Metals & Mining (Div.)	7.0	0.8%
Microsoft Corporation	MSFT		Computer Software	14.5	0.8%
Tractor Supply Co	TSCO		Retail Building Supply	9.5	1.0%
Jack Henry and Associates Inc	JKHY		IT Services	7.5	1.1%
Rollins Inc	ROL		Industrial Services	8.0	1.3%
AptarGroup Inc	ATR	0.85	Packaging & Container	9.0	1.3%
Silgan Holdings Inc	SLGN		Packaging & Container	19.5	1.3%
AO Smith Corp	AOS		Machinery	6.0	1.5%
Taiwan Semiconductor Mfg. Co Ltd	TSM		Semiconductor	8.0	1.5%
Northrop Grumman Corp Holding Co	NOC		Aerospace/Defense	23.0	1.6%
Broadridge Fin'l	BR		Information Services	14.0	1.6%
Hershey Company	HSY		Food Processing	22.0	1.8%
Mondelez International Inc	MDLZ		Food Processing	4.5	2.0%
ManTech International Corporation	MANT		IT Services	5.5	2.1%
Standard Motor Products Inc	SMP	0.85	Auto Parts	9.5	2.1%
Johnson and Johnson	JNJ	0.85	Med Supp Non-Invasive	13.5	2.6%
Texas Instruments Incorporated	TXN		Semiconductor	24.0	2.6%
Watsco Inc	WSO		Retail Building Supply	6.0	2.8%
National Fuel Gas Co	NFG		Natural Gas (Div.)	8.5	3.1%
Crown Castle International Corporation	CCI		Wireless Networking	5.5	3.2%
Walgreens Boots	WBA		Retail Store	8.0	3.6%
Healthcare Realty Trust Inc	HR	0.85	R.E.I.T.	11.0	4.0%
AT&T	Т	0.85	Telecom. Services	5.5	7.8%
PerkinElmer Inc	PKI		Precision Instrument	19.0	0.2%
CSW Industrials	CSWI	0.9	Petroleum (Producing)	10.5	0.5%
ResMed Inc	RMD		Med Supp Non-Invasive	22.0	0.7%
Cable One	CABO		Cable TV	6.5	0.7%
Sherwin Williams	SHW	0.9	Retail Building Supply	11.5	0.8%
Power Integrations Inc	POWI	0.9	Semiconductor	14.5	0.8%
Caseys General Stores Inc	CASY	0.9	Retail/Wholesale Food	10.0	0.8%
Exponent Inc.	EXPO	0.9	Information Services	6.5	0.9%
AudioCodes Ltd	AUDC	0.9	Telecom. Equipment	20.0	1.1%
Brown Forman Corp (Class B)	BFB	0.9	Beverage	7.0	1.1%
Cerner Corp	CERN	0.9	Healthcare Information	4.5	1.2%
AmerisourceBergen Corp	ABC	0.9	Med Supp Non-Invasive	12.0	1.4%
Heidrick and Struggles Internat'l Inc	HSII		Human Resources	11.0	1.4%
Republic Services Inc	RSG	0.9	Environmental	7.5	1.4%
Selective Insurance Group Inc	SIGI	0.9	Insurance (Prop/Cas.)	8.0	1.5%
Abbott Laboratories	ABT		Med Supp Non-Invasive	6.0	1.5%
Commerce Bancshares Inc	CBSH	0.9	Bank (Midwest)	8.0	1.5%

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				3 To 5 Year	
Company Name	Ticker	Beta In	ndustry	<b>Growth Rate</b>	DIV Yield
Cboe Global Markets	CBOE	0.9 Br	rokers & Exchanges	13.0	1.6%
FirstCash Holdings	FCFS	0.9 Fi	inancial Svcs. (Div.)	6.0	1.7%
Booz Allen Hamilton Holding Corp.	BAH	0.9 In	dustrial Services	17.5	1.7%
BWX Technologies	BWXT	0.9 Pc	ower	11.0	1.7%
Sensient Technologies Corp	SXT	0.9 Fc	ood Processing	5.0	1.8%
Amdocs Ltd	DOX	0.9 IT	Services	6.0	1.9%
Duke Realty Corporation	DRE	0.9 R.	.E.I.T.	4.0	1.9%
Air Products and Chemicals Inc	APD	0.9 Ch	hemical (Diversified)	9.0	2.1%
Alexandria Real Estate Equities Inc	ARE	0.9 R.		11.0	2.3%
Cisco Systems Inc	CSCO	0.9 Te	elecom. Equipment	9.0	2.6%
Ingredion Incorporated	INGR	0.9 Fc	ood Processing	6.5	2.7%
Fresenius Medical ADR	FMS	0.9 Me	edical Services	5.5	4.7%
Mercury General Corp	MCY	0.9 Ins	surance (Prop/Cas.)	5.0	4.9%
Holly Energy Part.	HEP	0.9 Pij	peline MLPs	10.0	7.9%
Cooper Companies Inc	COO	0.95 Me	ed Supp Non-Invasive	17.0	0.0%
Old Dominion Freight Line Inc	ODFL	0.95 Tr	rucking	13.5	0.3%
Apple Inc	AAPL	0.95 Cd	omputers/Peripherals	16.0	0.5%
Tetra Tech	TTEK	0.95 En	nvironmental	10.5	0.6%
UniFirst Corp	UNF	0.95 Ind	dustrial Services	6.5	0.6%
Brown and Brown Inc	BRO		nancial Svcs. (Div.)	3.5	0.6%
St Joe Company	JOE	0.95 En	ngineering & Const	6.5	0.7%
Aon PLC	AON	0.95 Fir	nancial Svcs. (Div.)	23.5	0.8%
Xilinx Inc	XLNX	0.95 Se	emiconductor	9.0	0.8%
J B Hunt Transport Services Inc	JBHT	0.95 Tru	ucking	15.0	0.8%
Estee Lauder Companies Inc	EL		oiletries/Cosmetics	5.5	0.8%
Franklin Electric Co Inc	FELE		ectrical Equipment	7.5	0.8%
Ball Corp	BLL		ackaging & Container	16.5	0.9%
Expeditors Internat'l of Washington Inc	EXPD		dustrial Services	7.0	1.0%
Intercontinental Exch.	ICE		okers & Exchanges	11.0	1.1%
Dolby Laboratories Inc	DLB		ntertainment Tech	5.5	1.2%
Accenture Plc New	ACN		Services	16.0	1.2%
Vail Resorts	MTN		otel/Gaming	9.0	1.3%
MSA Safety	MSA	0.95 Ma		9.0	1.3%
Matson Inc	MATX	0.95 Ma		22.5	1.3%
Marsh and McLennan Companies Inc	MMC		nancial Svcs. (Div.)	15.5	1.4%
Service Corp International Inc	SCI		dustrial Services	14.0	1.5%
Gentex Corp	GNTX	0.95 Au		6.5	1.5%
Kforce Inc.	KFRC		ıman Resources	11.0	1.5%
CME Group Inc SAP AE	CME SAP		okers & Exchanges	6.5	1.6%
			omputer Software	6.5	1.7%
Gorman Rupp Co Infosys Limited	GRC INFY		eavy Truck & Equip Services	9.5 7.5	1.7% 1.7%
Analog Devices Inc	ADI		miconductor	24.0	1.7%
Assurant Inc	AIZ		nancial Svcs. (Div.)	7.5	1.9%
Open Text Corp	OTEX		Commerce	3.0	1.9%
GATX Corp	GATX	0.95 Rai		6.5	2.1%
CVS Caremark Corporation	CVS		tail Store	9.0	2.2%
Fastenal Co	FAST		tail Building Supply	6.5	2.2%
Garmin Ltd	GRMN		ectrical Equipment	5.5	2.2%
Hanover Insurance Group Inc	THG		surance (Prop/Cas.)	9.5	2.3%
Internat'l Flavors and Fragrances Inc	IFF		emical (Specialty)	9.0	2.3%
Extra Space Storage	EXR	0.95 R.E		5.0	2.6%
Carters Inc	CRI	0.95 Apr		15.0	2.6%
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Kiawah Island Utility p. 4 of 4

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Company Name	Ticker	Beta	Industry	<b>Growth Rate</b>	DIV Yield
Packaging Corp	PKG	0.95	Packaging & Container	13.0	3.0%
3M Company	MMM	0.95	Diversified Co.	9.0	3.4%
MSC Industrial Direct Co Inc	MSM	0.95	Machinery	5.5	3.6%

		Mean	Median		Average of Mean & Median
	Prospective CEM	10.86		9.00	9.93
	Retrospecti	ve CEM (E		8.29	
Source: Value Line database		Overall CE	M result		9.11

p. 1 of 1

Kiawah Island Utility Dr. Douglas H. Carlisle Docket # 2021-324-WS Exhibit DHC-13

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<u>Company Name</u>	<u>Ticker</u>	$\underline{\boldsymbol{\beta}}$
American Water Works	AWK	0.85
American States Water Co	AWR	0.65
Artesian Resources	ARTNA	0.75
California Water Service Group	CWT	0.70
Global Water Resources	GWRS	0.80
Middlesex Water Co	MSEX	0.70
SJW Group	SJW	0.80
Essential Utilities	WTRG	0.95
York Water Company	YORW	0.85
	mean	0.78
	median	0.80
	average of mean & median	0.79

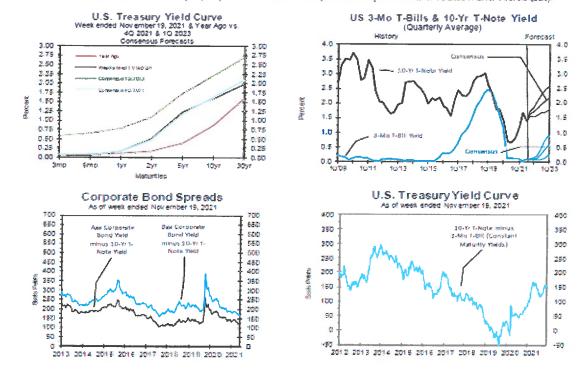
source: Exhibit DHC-4

### 2 ■ BLUE CHIP FINANCIAL FORECASTS ■ DECEMBER 1, 2021

### Consensus Forecasts of U.S. Interest Rates and Key Assumptions

							Con	sensus	Foreca	sts-Qu	arterly	Avg.		
		erage For						Latest Que		10	2Q	3Q	40	10
Interest Rates	Nov 19	Nov 12	Nov 5	Oct 29	Oct	Sep	Auz	3Q 2021	2021	2022	2022	2022	2022	2023
Federal Funds Rate	0.08	0.08	80.0	0.08	0.08	0.08	0.09	0.09	0.1	0.1	0.1	0.3	0.4	0.6
Prime Rate	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.3	3.3	3.3	3.4	3.5	3.7
LIBOR, 3-mo.	0.16	0.15	0.14	0.13	0.13	0.12	0.12	0.13	0.2	0.2	0.3	0.4	0.6	0.7
Commercial Paper, 1-mo.	0.06	0.05	0.07	0.06	0.05	0.05	0.05	0.05	0.1	9.1	0.2	0.3	0.5	0.6
Treasury bill, 3-mo.	0.05	0.05	0.05	0.06	0.05	0.04	0.05	0.05	0.1	0.1	0.1	0.2	0.4	0.6
Treasury bill, 6-mo.	0.06	0.07	0.07	0.06	0.06	0.05	0.06	0.05	0.1	0.1	0.2	0.3	0.5	0.7
Treasury bill, 1 yr.	0.18	0.16	0.15	0.14	0.11	0.08	0.07	0.08	0.2	0.2	0.3	0.4	0.6	0.8
Tressury note, 2 yr.	0.53	0.48	0.45	0.48	0.39	0.24	0.22	0.23	0.5	0.6	0.7	0.8	1.0	1.1
Treasury note, 5 yr.	1.24	1.17	1.14	1.18	1.11	0.86	0.77	0.80	1.2	1.3	1.4	1.5	1.6	1.7
Tressury note, 10 yr.	1.60	1,53	1.54	1.59	1.58	1.37	1.28	1.32	1.6	1.7	1.9	2.0	2.1	2.2
Тгеязшту воте, 30 ут.	1.98	1.90	1.95	2.00	2.06	1.94	1.92	1.93	2.1	2.2	2.3	2.5	2.6	2.7
Corporate Ass bond	2.82	2.72	2.77	2.80	2.85	2.72	2.72	2.72	2.7	2.9	3.1	3.2	3.4	3.6
Corporate Baa bond	3.29	3.18	3.22	3.25	3.31	3.16	3.16	3.16	3.4	3.6	3.8	4.0	4.2	4.4
State & Local bonds	2.56	2.56	2.60	2.61	2.59	2.67	2.64	2.64	2.4	2.6	2.7	2.9	3.0	3.1
Home mortgage rate	3.10	2.98	3.09	3.14	3.07	2.90	2.84	2.87	3.1	3.2	3.4	3.5	3.7	3.8
	-	100000		-Histor	y	*********			Co	nsenst	s Fore	casts-C	uarte	rly
	4Q	10	2Q	3 Q	4Q	10	2Q	3Q	4Q	10	2Q	3Q	4Q	10
Key Assumptions	2019	2020	2020	2020	2020	2021	2021	2021	2021	2022	2022	2022	2022	2023
Fed's AFE \$ Index	110.5	111.4	112.4	107.3	105.2	103.4	102.9	105.0	106.5	106.9	106.8	106.6	106.3	106.1
Real GDP	1.9	-5.1	-31.2	33.8	4.5	6.3	6.7	2.1	5.1	4.4	3.8	3.3	2.6	2.4
GDP Price Index	1.5	1.6	-1.5	3.6	2.2	4.3	5.1	5.0	4.6	3.4	2.8	2.7	2.5	2.5
Consumer Price Index	2.6	1.0	-3.1	4.7	2.4	3.7	8.4	6.6	5.6	3.3	2.9	2.6	2.5	2.4
PCE Price Index	1.7	1.3	-1.6	3.7	1.5	3.8	6.5	5.3	4.5	2.9	2.5	2.5	2.3	2.3

Forecasts for interest rates and the Federal Reserve's Major Currency Index represent averages for the quarter. Forecasts for Real GDP, GDP Price Index, PCE Price Index and Consumer Price Index are seasonally-adjusted annual rates of change (saar). Individual panel members' forecasts are on pages 4 through 9. Historical data: Treasury rates from the Federal Reserve Board's H.15: AAA-AA and A-BEB corporate bond yields from Bank of America-Memil Lynch and are 15+ years, yield to maturity: State and local bond yields from Bank of America-Memil Lynch. A-rated, yield to maturity: Mortgage rates from Freddie Mac. 30-year, fixed, LIBOR quotes from intercontinental Exchange. All interest rate data are sourced from Haver Analysis. Historical data for Fed's Major Currency Index, are from FRSR H.10. Historical data for Real GDP, GDP Price Index and PCE Price Index are from the Bureau of Economic Analysis (BEA). Consumer Price Index history is from the Department of Labor's Bureau of Labor Statistics (BLS).



For example, the annual arithmetic mean return of large-cap stocks was 10.2% over the 1926–20 period, while the annual arithmetic mean return of small-cap stocks was 11.9%.

Note that this increased return comes at a price: risk (as measured by standard deviation) increases

from 19.8% for large-cap stocks to 31.5% for small-cap stocks. The relationship between risk and return is a fundamental principle of finance. History tells us that small companies are riskier than large companies. Investors are compensated for taking on this additional risk by the higher returns

Exhibit 7.1: Summa	ry Statistics of	Large-Cap Stocks	and Small-Cap Stocks (%)	Z022 W
1926-2019				<u> </u>
	Geometric Mean (%)	Arithmetric Mean (%)	Standard Deviation (%)	5
Large-Cap Stocks	10.2%	12.1%	19.8%	<del>1</del> 0
Small-Cap Stocks	11.9%	16.3%	31.5%	- - -

S&P 500 index. (ii) IA SBBI® US Small Stock TR USD series. For detailed information about these series, see Chapter 3, "Description of the Basic Series".

The differences in the performance of large-cap stocks and small-cap stocks can have important The differences in the performance of large-cap stocks and small-cap stocks can have importational implications for investors. Exhibit 7.2 is a graphical depiction of the value of \$1 invested at the explosion o



Source of underlying data: Morningstar, Inc. Used with permission. All rights reserved. Calculations by Duff & Phelps. © Duff & Phelps. Series used: (i) "IA SBBI® US Large Stock TR USD Ext" series. The "IA SBBI® US Large Stock TR USD Ext" return series is essentially the S&P 500 index. (ii) IA SBBI® US Small Stock TR USD series. For detailed information about these series, see Chapter 3, "Description of the Basic Series"

# MARGINS OF LOWER DEBT, LOWER β COMPANIES

Selection Criteria: Book Value g: 3.50-9.25; LTD/Capital:1%-53.33%; Beta:.40-.72 Accessed March 2, 2022 from Value Line

	Book Value 5 Yr Growth			Operating
Company Name	Rate	% LTD/Capital	Beta	Margin
Akamai Technologies Inc	7.0	30.96	0.65	38.0
Alico Inc	7.0	33.32	0.70	27.2
Artesian Resources Corporation	4.0	45.65	0.70	47.8
Bonso Electronics International Inc	6.5	13.75	0.50	11.6
Costco Wholesale Corporation	6.5	29.13	0.60	4.2
Dollar General Corporation	7.5	38.28	0.65	12.2
AMCON Distributing Co	5.0	38.56	0.60	1.3
Daily Journal Corp	5.0	11.61	0.60	9.0
Emergent BioSolutions	9.0	36.76	0.70	35.3
Erie Indemnity Company	8.0	7.32	0.65	14.2
Energy Services of America Corp.	7.5	20.66	0.65	3.3
FTI Consulting Inc	7.5	16.97	0.70	13.5
General Mills Inc	8.0	50.82	0.60	21.0
ImmuCell Corporation	4.0	23.61	0.45	7.0
Newmont Corp.	3.5	19.24	0.60	47.8
Natural Grocers by Vitamin Cottage Inc	6.5	30.07	0.50	5.6
Nuvera Communications Inc.	6.5	34.99	0.65	42.0
Regency Affiliates Inc	5.5	26.17	0.55	28.8
Rand Worldwide Inc	9.0	14.58	0.65	12.7
Sanderson Farms Inc	9.0	1.73	0.55	16.0
Seaboard Corp	6.0	15.63	0.70	5.9
Sprouts Farmers Market	5.0	22.81	0.55	8.1
JM Smucker Company	5.0	30.21	0.65	22.9
Meridian Bioscience	8.5	15.45	0.70	26.6
Village Super Market Inc	5.0	21.21	0.45	3.3
Wheaton Precious Met.	4.0	3.30	0.60	69.7
Willamette Valley Vineyards Inc	<b>7.</b> 5	8.39	0.70	25.0
World Wrestling Entertainment	7.0	5.29	0.60	26.4
Means/Averages	6.45	23.09	0.61	20.94
Source: Value Line database		Average if Book g	g <6	24.57

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EXCERPT (4 pp.) OF CHAIR POWELL'S PRESS CONFERENCE: OPENING STATEMENT. Underlining made for emphasis – not in the original

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Transcript of Chair Powell's Press Conference January 26, 2022

CHAIR POWELL. Good afternoon. At the Federal Reserve, we are strongly committed to achieving the monetary policy goals that Congress has given us: maximum employment and price stability. Today, in support of these goals, the Federal Open Market Committee kept its policy interest rate near zero and stated its expectation that an increase in this rate would soon be appropriate. The Committee also agreed to continue reducing its net asset purchases on the schedule we announced in December—bringing them to an end in early March. As I will explain, against a backdrop of elevated inflation and a strong labor market, our policy has been adapting to the evolving economic environment, and it will continue to do so.

Economic activity expanded at a robust pace last year, reflecting progress on vaccinations and the reopening of the economy, fiscal and monetary policy support, and the healthy financial positions of households and businesses. Indeed, the economy has shown great strength and resilience in the face of the ongoing pandemic. The recent sharp rise in COVID cases associated with the Omicron variant will surely weigh on economic growth this quarter. High-frequency indicators point to reduced spending in COVID-sensitive sectors, such as travel and restaurants. And activity more broadly may also be affected as many workers are unable to report for work because of illness, quarantines, or caregiving needs.

Fortunately, health experts are finding that the Omicron variant has not been as virulent as previous strains of the virus, and they expect that cases will drop off rapidly. If the wave passes quickly, the economic effects should as well, and we would see a return to strong growth. That said, the implications for the economy remain uncertain. And we have not lost sight of the January 26,

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2022 fact that for many afflicted individuals and families, and for the health-care workers on the front lines, the virus continues to cause great hardship.

The labor market has made remarkable progress and, by many measures, is very strong. Job gains have been solid in recent months, averaging 365,000 per month over the past three months.

Over the past year, payroll employment has risen by 6.4 million jobs. The unemployment rate has declined sharply, falling 2 percentage points over the past six months to reach 3.9 percent in December. The improvements in labor market conditions have been widespread, including for workers at the lower end of the wage distribution, as well as for African Americans and Hispanics.

Labor demand remains historically strong. With constraints on labor supply, employers are having difficulties filling job openings, and wages are rising at their fastest pace in many years.

While labor force participation has edged up, it remains subdued, in part reflecting the aging of the population and retirements. In addition, some who would otherwise would be seeking work report that they are out of the labor force because of factors related to the pandemic, including caregiving needs and ongoing concerns about the virus. The current wave of the virus may well prolong these effects. Over time, there are good reasons to expect some further improvements in participation and employment.

Inflation remains well above our longer-run goal of 2 percent. Supply and demand imbalances related to the pandemic and [to] the reopening of the economy have continued to contribute to elevated levels of inflation. In particular, bottlenecks and supply constraints are limiting how quickly production can respond to higher demand in the near term. These problems have been larger and longer lasting than anticipated, exacerbated by waves of the virus.

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While the drivers of higher inflation have been predominantly connected to the dislocations caused by the pandemic, price increases have now spread to a broader range of goods and services.

Wages have also risen briskly, and we are attentive to the risks that persistent real wage growth in excess of productivity [growth] could put upward pressure on inflation. Like most forecasters, we continue to expect inflation to decline over the course of the year.

We understand that high inflation imposes significant hardship, especially on those least able to meet the higher costs of essentials like food, housing, and transportation. In addition, we believe that the best thing we can do to support continued labor market gains is to promote a long expansion, and that will require price stability. We are committed to our price-stability goal. We will use our tools both to support the economy and a strong labor market and to prevent higher inflation from becoming entrenched. And we'll be watching carefully to see whether the economy is evolving in line with expectations.

The Fed's monetary policy actions have been guided by our mandate to promote maximum employment and stable prices for the American people. As I noted, the Committee left the target range for the federal funds rate unchanged and reaffirmed our plan, announced in December, to end asset purchases in early March. In light of the remarkable progress we've seen in the labor market and inflation that is well above our 2 percent longer-run goal, the economy no longer needs sustained high levels of monetary policy support. That is why we are phasing out our asset purchases and why we expect it will soon be appropriate to raise the target range for the federal funds rate.

Of course, the economic outlook remains highly uncertain. Making appropriate monetary policy in this environment requires humility, recognizing that the economy evolves in

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unexpected ways. We'll need to be nimble so that we can respond to the full range of plausible outcomes. With this in mind, we will remain attentive to risks, including the risk that high inflation is more persistent than expected, and are prepared to respond as appropriate to achieve our goals.

To provide greater clarity about our approach for reducing the size of the Federal Reserve's balance sheet, today the Committee issued a set of principles that will provide a foundation for our future decisions. [In] these high-level principles, [we] clarify that the federal funds rate is our primary means of adjusting monetary policy and that reducing our balance sheet will occur after the process of raising interest rates has begun. Reductions will occur over time in a predictable manner primarily through adjustments to reinvestments so that securities roll off our balance sheet. Over time, we intend to hold securities in the amounts needed for our ample-reserves operating framework, and in the longer run, we envision holding primarily Treasury securities.

Our decisions to reduce our balance sheet will be guided by our maximum-employment and price-stability goals. In that regard, we will be prepared to adjust any of the details of our approach to balance sheet management in light of economic and financial developments. The Committee has not made decisions regarding the specific timing, pace, or other details of shrinking the balance sheet.

And we will discuss these matters in upcoming meetings and provide additional information at the appropriate time.

To conclude: We understand that our actions affect communities, families, and businesses across the country. Everything we do is in service to our public mission. We at the Federal Reserve will do everything we can to achieve our maximum-employment and price-stability goals. Thank you, I look forward to your questions.